

Sequence listing

<110> Epigenomics AG

<120> Method for the analysis of gynaecological cell proliferative disorders.

<160> 95

<210> 1

<211> 3190

<212> DNA

<213> Homo Sapiens

<400> 1

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| attagccagt | cgtggtggcg | catgcctgta | atcccagcta | ctcaggaggc | tgatagagga | 120 |
| gaaccgcttg | aacccaagag | gcgaagggtg | cagtgaacca | agaacacacc | attgcactcc | 180 |
| agcctgggcg | acagagcagg | actccgtctc | aaaaaaaaaa | gagctggtca | gtgtcaaattg | 240 |
| cttagcacag | agactggcac | agtaatcttc | aatgtccagc | acctattggt | actatTTTTT | 300 |
| TTTTTTTTT | TTTTTTgaga | cagagtcttg | ctctgtcgcc | caggctggag | tacagtggcg | 360 |
| cgatctcggc | tcactgcaag | ctccacctcc | caggttcatg | ccattctcct | gcctcagcct | 420 |
| cccagtagtc | tgggactaca | ggcgcccacc | accacgcctg | gctaattttt | tgtattttta | 480 |
| gtagagacgg | ggtttcactg | cgttagccag | gatggtctca | atctcctgac | ctcgtgatct | 540 |
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| ttgttactat | ttttaccctt | cacttctgta | cagagcattt | atggctcaag | aaacattttg | 660 |
| catttttaatt | gtatgggagt | cccacaacag | catagggaga | catttctgat | cattattccc | 720 |
| attaggaagg | tggagaaact | gaggcttttg | gaggtggtcc | tgacctaggg | aatcaatttg | 780 |
| ctgactcact | aacccatgaa | gctctacagt | taaaaaagac | tagattaaaa | aatgagaact | 840 |
| cagtaaaagg | gctgaggcag | gaggatcgcc | tgagttcaga | aatttgagat | cagcctcggc | 900 |
| aacatagtga | gatccccctt | ctagaaaaat | tttttaaaaa | attaggccgc | tcgaggcaga | 960 |
| gtgcagtggc | tcacgcctgt | aatccaacac | ttcaggaggc | tgaagagggt | ggatcacctg | 1020 |
| aggtcaggag | ttccagacca | gcctggccaa | catggtgaaa | ccccgtctgt | actaaaaata | 1080 |
| caaaattagc | cggtgtggtg | gcacacgcct | gtagtcccag | ctactcaata | ggctgagaca | 1140 |
| ggagagctct | ttgaaccggg | caggcgaggg | ttgcagttag | ccgagatcgt | gccactgcac | 1200 |
| tccagcctgg | gcaagacaga | gcgagactcc | gtctcaaaaa | atacaaaaca | aacaaacaaa | 1260 |
| caaaaaatta | ggctgctagc | tcagtggctc | atggctcaca | cctgaaatcc | tagcactttg | 1320 |
| ggaggccaag | gcaggaggat | cgcttcagcc | caggagttcg | agaccaggct | gggcaataca | 1380 |
| gggagacaca | gcgcccccc | tgccccctgt | cgccccgact | tgtctctcta | caaaaaggca | 1440 |
| aaagaaaaaa | aaattagcct | ggcgtggtgg | tgtgcacctg | tactcccagc | tactagagag | 1500 |
| gctggggcca | gaggaccgct | tgagcccagg | agttcgaggc | tgcaagtgag | tgtgatcgca | 1560 |
| ccactgcact | ccagcttggg | tgaagagagt | agaccccatc | tccaaaacga | acaaacaaaa | 1620 |
| aatcccaaaa | aacaaaagaa | ctcagccaag | tgtaaaagcc | ctttctgata | ccagggtcta | 1680 |
| gtgagccacc | ggcggggctg | ggattcgaac | ccagtggaa | cagaaccgtg | cagggtcccat | 1740 |
| aaccacacta | gaccctagca | actccaggct | agagggtcac | cgcgctctat | cgaggccggg | 1800 |
| tgggcggggc | gtcagctccg | ccctggggag | gggtccgcgc | tgctgattgg | ctgtggccgg | 1860 |
| cagggtgaacc | ctcagccaat | cagcggtagc | ggggcggtg | cctccggggc | tcacctggct | 1920 |
| gcagccacgc | acccctcttc | agtggcgtcg | gaactgcaaa | gcacctgtga | gcttgcgga | 1980 |
| gtcagttcag | actccagccc | gtccacagcc | ggcccgaacc | gaccgcaccc | ggcgccctgc | 2040 |
| ctcgtctggc | gtccccggcc | agccatgggc | ccttggaagc | gcagcctctc | ggcgctgctg | 2100 |
| ctgctgctgc | aggtacccgc | gatccccctg | cttgcgaggg | acgcattcgg | gccgcaagct | 2160 |
| ccgcgcccca | gccctgcgcc | ccttcctctc | ccgtcgtcac | cgcttccctt | cttccaagaa | 2220 |
| agttcgggtc | ctcaggagcg | gagcggcctg | gaagcctcgc | gcgctcggga | ccccccagtg | 2280 |
| atgggagtgg | ggggtgggtg | gtgagggggc | agcgcggtt | tcctgcccc | tccagcgag | 2340 |
| accgaggcgg | gggcgtctgg | ccgcggagtc | cgcggggtg | gctcgcgcg | gcggtggggg | 2400 |
| cgtgaagcgg | gggtgtaggg | gtggggtgtg | gagaaggggt | gccctgggtg | aagtcgaggg | 2460 |
| ggagccagga | gtcgtgggga | cgatcttcga | gggaaggaga | ggggcatccg | tagaaataaa | 2520 |
| ggcacctgcc | atgccaagaa | aggtcgtaaa | taggagtgag | ggtcccgggg | ataagaaagt | 2580 |
| gaggtcgagg | gaggtgggag | cgcccctcgc | tctgaggagt | gggtgattcc | cggtctaagg | 2640 |
| aaagtggggt | actggagaat | aaagacatct | ccaataaaat | gagaaaggag | actgaaaggg | 2700 |
| aacggtgggc | taggtcttga | gggggtgact | cggcggcccc | ctcccgggag | ttcctggggg | 2760 |
| ctcggcggcc | gtaggtttcg | gggtggggga | gggtgacgtc | gctgcccggc | cgtcccgggg | 2820 |

2/93

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| gggttccgtg | agcaggaggg | aacctcccga | gtcaccgggt | tccatctacc | tttccccac | 2940 |
| cccagggtctc | ctcttggtc | tgccaggagc | cggagccctg | ccaccctggc | tttgacgccc | 3000 |
| agagctacac | gttcacgggtg | ccccggcgcc | acctggagag | aggccgcgtc | ctgggagag | 3060 |
| gtgagggcgc | gctgccgggtg | tccctgggcg | gagtagggag | gggttgga | ggggccgaga | 3120 |
| aattgcactc | ccacaccct | gggttgcaat | gggcaagctc | cctccttggc | tcaaacgaca | 3180 |
| ccccttgga | | | | | | 3190 |

<210> 2

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<212> DNA

<213> Homo Sapiens

<400> 2

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| gcgtgatttg | tgaggctgag | ccccaacagt | ccaaagaagc | aaatgggatg | ccacctccgc | 120 |
| ggggctcgct | cctcgcgagg | tgtcaccocc | gtatctgcc | tgcaaaacga | gggagcgta | 180 |
| ggaaggaatc | cgtcttgtaa | agccattggt | cctggctcatc | agcctctacc | caatgctttc | 240 |
| gtgatgctgc | tgctgatcta | tttggaagt | tggtggctg | gcgaggcaga | gcctctcctc | 300 |
| aaagcctggc | tcccacggaa | aatatgctca | gtgcagccgc | gtgcatgaat | gaaaacgccc | 360 |
| ccgggcgctt | ctagtccggac | aaaatgcagc | cgagaactcc | gctcgttctg | tgcggttctcc | 420 |
| tgtcccaggt | agggaagagg | ggctgccggg | cgcgctctgc | gccccgtttc | tgcatcggga | 480 |
| tcgcccggca | cgggcagggt | gagggggctt | tcgggggggtc | ggggcctccg | gtcgcggcgg | 540 |
| cgaagacaga | tcggggctcg | gtagggaggt | cattccgagc | ccagagatcc | taggcacccc | 600 |
| ccacacacag | gctcccactc | tggtggtgct | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 660 |
| gtgtgtgtgt | gtacgttctg | taacgggagg | aggagagagc | tcccagtcct | tttttgctag | 720 |
| caggggagac | attctcggcc | acatcaagt | gggtaacttt | ggttccctcc | tcggagggt | 780 |
| cgggtgcattg | gagaaagact | cagttagagg | cgactccaac | gagccgcggg | tttccccagc | 840 |
| ccaacgcccc | gcggccgaag | cgctgctcgg | gtccggattg | cgggatgcgg | ggctggagag | 900 |
| gccgagcagg | caccaccgac | ttcccagggtc | gcccggggccc | cctgggtacag | cccggctgcc | 960 |
| cgctggaagg | cgctcggggg | cagcagagag | cctcagcccg | gctgctgctg | tcgctcaaa | 1020 |
| gcgcccggcg | cggccgcacc | cgcatcgggg | tccttttgct | cccagacccc | ggggccgaaa | 1080 |
| gggcccggagc | gtgtcccccg | ccagggcgca | ggccccagcc | ccccgcaccc | ctattgtcca | 1140 |
| gccagctgga | gatccccggc | tgccgcctct | gctgccttcc | ctgagcggga | | 1200 |
| gcggagcgca | gagaaaagtt | caagccttgc | ccaccggggc | tgagctgct | tgtaaccct | 1260 |
| cagagcgcca | cggcgcgagg | gaagggcacg | ccaaccagga | gagggggcga | gggagatgcg | 1320 |
| gtccgcctgc | agtcacctct | gcacctcaga | gatttcggga | agtttgagtg | caggaaagca | 1380 |
| gcgctccgag | gccaggcctg | gggtgctggc | cgctgcgggg | ggcacgccc | gcgctgctca | 1440 |
| ggggcctgtg | gtttcggaga | gcaccccgat | ccagtccccc | atcgccctct | tggcaggcgt | 1500 |
| tgggacttgg | agttagctgg | cagcctgcaa | gtgggtggat | aagagccagg | gcagggcagg | 1560 |
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| gagttgggtt | cccaggtagg | gactgtctgg | gatggggaga | ctgggtgcaga | cttctaaggg | 1740 |
| agaccactgt | tagagcaatg | ttgggttttag | actttggaaa | tgggctaaca | tctcagaaat | 1800 |
| gcagtgatgg | gtgatagtac | caggggagat | tcaagtgcc | ggctgctgag | cccgtcccca | 1860 |
| agctcctgac | ttctttcttg | gatatacagt | cccgattaag | gactgcccag | ttatagctcc | 1920 |
| ttttctacca | ggcttttctg | gttgattatc | ttgggggtccc | tacagccttg | agtcttgcca | 1980 |
| tggatcccaa | gcctggctgt | gaaccagttt | tccagatgtc | ctgtacccta | gagaccccaa | 2040 |
| ggctgtatgt | gtgtacatat | accccaattt | agcaaggcgg | tttgagcat | gcctcagaca | 2100 |
| gaaaggattc | agacagatcc | ttcctgccat | ctgctagtgg | taccaaccgg | ggcaagttgt | 2160 |
| ttaacctctt | tgagcttcca | agttctccat | tgtaaaataa | tctgctgcct | tcctaggact | 2220 |
| gctgagtggg | taggattgca | ttcaacagga | tgctctatgc | aatgcattgc | agtcctgggag | 2280 |
| ctgtcgggtg | ctgagagcac | t | | | | 2301 |

<210> 3

<211> 2501

<212> DNA

<213> Homo Sapiens

<400> 3

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|------------|------------|------------|------------|------------|------------|----|

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| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|------|
| gactgcgctg | cccccttggt | gcccccttcg | ctctcgtagg | cgcgcggggc | cactactcac | 120 |
| gcgcgcactg | caggcctttg | cgcacgacgc | cccagatgaa | gtcgccacag | aggtcgcacc | 180 |
| acgtgtgctg | ggcggggccc | gcgggctgga | agcgggtggc | acggccaggg | accagctgcc | 240 |
| gtgtgggggt | gcacgcgggtg | ccccgcgcga | tgcgcagcgc | gttggcacgc | tccagccggg | 300 |
| tgcggccctt | cccagcgcgc | ccagcgggtg | ccagctcccg | cagctcaatg | agctcaggct | 360 |
| cccccgacat | ggcccggttg | ggccccgtgt | tcgctggctt | tgggcgctag | caagcgcggg | 420 |
| ccgggcgggg | ccacagggcg | ggccccgact | tcagcgcctc | ccccaggatc | cagactgggc | 480 |
| ggcgggaagg | agctgaggag | agccgcgcaa | tggaaacctg | ggtgcaggga | ctgtggggcc | 540 |
| cgaaggcggg | gctgggcgcg | ctctcgcaga | gcccccccg | ccttgccctt | ccttccctcc | 600 |
| ttcgtcccct | cctcacaccc | caccccgga | ggccacaacg | acggcgaccg | caaagcacca | 660 |
| cgcggagata | cccggtgttc | tggaggccag | ctttactgtg | ctagagggaag | aggggtcccca | 720 |
| catccggccc | tggccctcct | ggtccggttt | gctgaagcaa | cacacttggc | ctacccactg | 780 |
| ggtggggcag | gaagtctcga | gccttcactt | ggggtgagga | ggaggagat | cggtcagcag | 840 |
| ctttaccgcc | cgctctgctc | tccactgcgg | agactggggc | tccggcagag | gctggaccgt | 900 |
| gatcttgagg | ttcaggggtg | cattctgggt | ggattccctt | ggcatgggtg | gtcggccctc | 960 |
| agcaactgca | gccctcattt | ggctctgtca | ccctgggctg | ccaggacaca | agtctttcca | 1020 |
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| tgcattgtggg | ggatgtggga | gtagggtcta | gaggtccaag | gttctaggat | accctcacct | 1140 |
| gcagcaatac | cactcattct | ggcatcgtga | gcagcgttta | gaagcctctg | cactgcagta | 1200 |
| agcacagcgg | ggcgcgtctg | gagccactgc | ctctagcaca | tccagcctgt | aggtctcagc | 1260 |
| ccacctgggg | gaaagtcagg | aaggtctgac | tggccctgga | aggtgggggc | acccaccca | 1320 |
| catccatgcc | tcctgcatcc | cctccaccct | ccctgccatt | tccacaggcc | ttaccttcgc | 1380 |
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| attgcctgcc | acttgccctc | gttttctcgc | tccagccgct | cccagatttc | tgggatctag | 1500 |
| gagagagaag | tggagagtgg | caggaaggtg | ctggtaaagt | gggacagtgg | tcctgagcag | 1560 |
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| gtgtgtctgt | gaggaaggcc | cgaagctgca | aggggtgtcca | gtggaggcca | gtgtgatgca | 1740 |
| ggtgctggcc | agggggccaa | ggaaaaggaa | ggggctgggt | tgggctgaga | atgcctgtgg | 1800 |
| gggcccattgt | ccactagct | ggtgtgtcac | ctgaggccca | aggactgaaa | agagcactgg | 1860 |
| ggttgagggtg | ggtgggcaaa | gataaacagc | agggacgcag | tcggggtagg | atggggaggg | 1920 |
| cgggtactggg | gctgtggggg | ctggtgcgga | gggagtctga | ccttgagtag | ccgtcccttg | 1980 |
| gcaaaacttg | tgaggcagta | gcgcgcctga | gcctcagggc | ttagcagcag | gttgtacagg | 2040 |
| gcgactccaca | cttgcccgtc | caacttgctc | agcttttgc | gctctgaggg | ggccacagta | 2100 |
| tgccaacggc | tgcctcgaa | ctgctgcagc | ttgcctgggg | agaggaaacca | gcacactggg | 2160 |
| tgcagacgtt | gaattctctt | caagtgcgac | agctgtgggg | gctgggagac | tgaccactgc | 2220 |
| ctgggaatgg | gagaacctgg | gctgcaggac | ttgcccaggc | tatagggtctg | ctgaccccag | 2280 |
| agcagggtga | gcctcagtag | tggacacatg | ggcctggcct | gctgcagagc | tcaggtctag | 2340 |
| gccaaccttg | gctgaggcat | cctggtatcc | tcagtgggct | tggggacagg | gtttgtcttc | 2400 |
| gtgtgtgcaa | gctgcccccc | tctatcaaaa | agataccctg | aagcagtagc | ctggggctta | 2460 |
| ggctggtggg | ggaaggacct | acctccttcc | cgccggctcc | a | | 2501 |

<210> 4

<211> 2501

<212> DNA

<213> Homo Sapiens

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| aagttttgtt | agctccacc | tcactgaaat | aggtgcata | tcaggtttaa | agttaaatgg | 120 |
| atttgaaaaa | agt tctaagt | cctttttaat | gaacctgagg | tccttaaaat | gtctctcaaa | 180 |
| ttcttttttg | agacgacaga | tcaccatttg | atacctatca | ggatcaaata | ttttttcatc | 240 |
| ttccttattt | tgcgtgttta | gctcatcaac | aacttctctg | agggcaggaa | agtctgttag | 300 |
| atttttttcc | tcaatatgtc | tttgaaataa | attcagctta | acttcgaaag | tacaaatatg | 360 |
| gtcaaaggca | gcagcagcaa | agactttact | aactcgtaat | tcttcaactga | gttctcgaag | 420 |
| gtgttccata | atgtccacca | agaagccaaa | gtcacaaaagc | cattgtttgt | ctgagaagtg | 480 |
| gactgttgtt | gccctactg | aaaccaagaa | cgcttccatt | tcttttctta | gagagaatat | 540 |
| tagtttttaa | gtt ttccctc | tcctaagcca | attgttcaga | catcgctccat | taaccctttc | 600 |
| accatgctct | gat tcagatt | ccgttagtaa | agctcgaaat | tcaggtcgcc | taacgcctct | 660 |
| ggtcttaaat | aaaactatcc | attcggatat | ggtatttatg | atctgattaa | catctacatc | 720 |
| ataggagctc | aacagttcca | agtgaagaaa | tcctgaataa | tgaatgacat | tccaacagtt | 780 |
| ggggcttaac | gcc ttttctc | tcatgtatga | gacgagtcct | gagttctcac | caatcatcct | 840 |

| | | | | | | |
|------------|-------------|-------------|-------------|------------|-------------|------|
| caaagtatgg | gtcgtggtca | gtccaacccat | tctctgcaag | ctaagccctg | ctgtctgcag | 900 |
| ggactctagg | attgccgaca | tgagcgcacc | aacactgaaa | tgatgagtca | ggttgattat | 960 |
| ggtcagaaag | tcttcttgca | cctccaactc | agggcctaca | ccgcggataa | agaccaggag | 1020 |
| gtagttctca | taggccacaa | aagcctggtc | gtccaaggca | agagaatagg | ctttaaaagtc | 1080 |
| cctggctcgg | ttaaaaaagct | ggttgcgtag | attcctgtca | atgctcagga | tcctctgcct | 1140 |
| tgtgatatct | ggagataagt | caacgccttg | caggacgctt | acatgctcgg | gcagtacctc | 1200 |
| tctcagcaac | acctccatgc | actggtatac | aaagtcctccc | tcaccccagc | cgcgaccctt | 1260 |
| caaggccaag | aggcggcaga | gcccggaggc | tgacacgaca | gctctctctt | caggagtga | 1320 |
| ggaggccaag | ggcaagtgcg | cctgacgcag | acgctccacc | agggccgcgc | gctcgcgctc | 1380 |
| cgccacatac | cgctcgtagt | attcgtgctc | agcctcgtag | tggcgctga | cgctcgcttc | 1440 |
| gcgggtagct | acgatgaggc | ggcgacagac | caggcacagg | gccccatcgc | cctccggagg | 1500 |
| ctccaccaac | aaataacgct | gggtccactc | gggcgggaaa | actagagcct | cgctcgacttc | 1560 |
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| tgcgccagat | cacctcagca | gaggcacaca | agcccgggtc | cggcatctct | gctcctattg | 1740 |
| gctggatat | tcgtattccc | cgagctccta | aaaacgaacc | aataggaaga | gcggacagcg | 1800 |
| atctctaaag | cgcaagcgca | tatccttcta | ggtagcgggc | agtagccgct | tcaggaggag | 1860 |
| acgaagagac | ccagcaaccc | acagagttga | gaaatttgac | tggcattcaa | gctgtccaat | 1920 |
| caatagctgc | cgctgaaggg | tggggctgga | tggcgtaagc | tacagctgaa | ggaagaacgt | 1980 |
| gagcacgagg | cactgaggtg | attggctgaa | ggcacttcgc | ttgagcatct | agacgtttcc | 2040 |
| ttggctcttc | tggcgccaaa | atgtcgttcg | tggcaggggt | tattcggcgg | ctggacgaga | 2100 |
| cagtggtgaa | ccgcatcgcg | gcgggggaaag | ttatccagcg | gccagcta | gctatcaaag | 2160 |
| agatgattga | gaactggtac | ggagggagtc | gagccgggct | cacttaaggg | ctacgactta | 2220 |
| acggggcgcg | tcactcaatg | gcgcggacac | gcctctttgc | ccgggcagag | gcatgtacag | 2280 |
| cgcatgccca | caacggcgga | ggcgcggcg | ttccctgagc | tgccagtcag | gccttctcct | 2340 |
| tttcgcgaga | ccgtgtgttt | ctttaccgct | ctccccagag | accttttaag | ggttggtttg | 2400 |
| agtgtaaagt | gaggaatata | cgtagtggtg | tcttaatggt | accgttaact | aagtaaggaa | 2460 |
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<211> 3838

<212> DNA

<213> Homo Sapiens

<400> 5

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| aaaggaagag | tgaggcagga | agggtttaaa | tgaggctcc | tcggaggaca | agtcgccgcc | 840 |
| acacccctgt | ctgccgtccc | gccagccggc | ctcacgcggc | gcgggaaaac | ggtcggcctc | 900 |
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| cggttcagac | ttttcttttt | ctttaatccc | cgtccaaggg | atccgccttc | acccccacc | 1380 |
| ccagccaccc | caattcccta | ttccctcccc | ttggacggcg | ccggggaaaa | caagctgctc | 1440 |
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5/93

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| gagtcgcggc | caaaaacgcc | ctggagtcc | atacctacaa | catcaagcag | acggtggaag | 3780 |
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<211> 2893

<212> DNA

<213> Homo Sapiens

<400> 6

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| ggagggggag | gacccccctc | agaggtgaga | aggggtctgc | ggcctcgtct | ccagccgagg | 120 |
| gcgggaggcg | cctcgccccct | acacccatcc | gtccctccca | acccaggccg | gggaggggtac | 180 |
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| gggttgaggg | ggatgcgagc | caggttctcg | cggcccacgg | tggccacgat | gcgctggcgg | 360 |
| cacagctcct | gcagcgcccg | cacgcggcgc | tggcgcagcg | gggccccag | catgcggcgc | 420 |
| ggcgccgcca | cgtagtgtc | cagcagctcg | aagaggcagt | cgaagctctc | gcggctgcca | 480 |
| tccaggtgaa | agcggccggc | ctgaaagtgc | acgcggatgc | tcgtgggtcc | cgaggccatc | 540 |
| ttcacgctaa | ggcgcaaaaa | gcagttccgc | tggcggtgt | cgcgcaccag | gaaggtgccc | 600 |
| acgggctcgg | cgcgcagccg | ctcgtgcgcc | ccgtgcacgc | tcaggggccc | ccagtagaat | 660 |
| ccgcaggcgt | ccaggagcgc | gctggcgccg | gtgatgcgcc | ggtaatcggc | gtgcgaacgg | 720 |
| aatgtgcgga | agtgcgtgtc | gccggggggc | ggggccggga | ccgcggggca | cggccgcggg | 780 |
| cgcgcggggg | ccgcgggcga | ggaggaggaa | gaggaggaag | gttctggccg | ccgtcggggc | 840 |
| tctgtgctg | tggagactgc | attgtcggt | gtcacctggt | tgtgtgctac | catcctacag | 900 |
| aaggggccag | ccggaggggt | gggccatagc | gtccgggggt | gcgctgcggg | agagacaaag | 960 |
| aggtgagctg | gggcgctgcg | gggccgggca | ggtgtgcgcc | ggccggacaa | ctccggaggg | 1020 |
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| | | | | | | |
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| tggagagcag | ccggttcttg | ctccagccgt | ccggccccgg | ctcgccgccc | cgcgccccgc | 1260 |
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| tctgcccgc | tggttcgcacc | tgccccagca | ccgcctctc | gaggggctct | ggccccgacc | 1860 |
| ctgcgccttc | cggccacttc | tccgaccct | ccttcggact | tggcgacccc | gattttgccc | 1920 |
| cgtacctcg | ggttcacttc | tctgcgcga | ggccctcttg | ggacgcgccc | tgacacaccc | 1980 |
| tcctccgccc | cagctgtctc | cacaccgcgc | gggggcagag | ccctgtcctc | tcctcccctg | 2040 |
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<212> DNA

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<400> 7

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| acagctgtga | acaatgcaag | tacaaatata | tgaagcagag | ttggggagaa | agtaagctgg | 300 |
| agaaataaga | cataaactag | gttagatggg | gaacatgatt | aaggaaaaaa | ctagagcagg | 360 |
| gaggaaagag | aaatgtgcag | ggggaagggtc | aattctgagt | gagccaacag | gcaaggtctc | 420 |
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| | | | | | | |
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| ctctgctctc | tttatctttt | ctctagagct | gggccagggc | gctaactgga | agcttgggg | 4740 |
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| agggactcag | gcctggcgga | gcgcagagcg | cggaagagc | ttcttgga | tagcttctta | 5460 |
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| gccgctttca | agtacagtca | ggcaattcgc | gcggcacgct | gtctctaggc | atctgaaaaa | 5820 |
| agaaaaaaga | aaaaaagtaa | agtatctggc | aatcattct | ggctttccaa | atccgtatcc | 5880 |
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<212> DNA

<213> Homo Sapiens

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| ttgtttgtgt | tataagttct | catcatcttag | ctcccactta | caagtggaga | catccagtat | 180 |
| ttggatttct | gttcctgcat | tagtttgcta | aggataatag | cctctagctc | catccatggt | 240 |
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| caacataaac | accaacctct | tccccaccac | aaaaatccct | tgctgaattt | gattacactt | 360 |
| aaattaacga | gttttggttc | atgaaagact | ccttggaaca | acttgacagt | tgatgggaata | 420 |
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| agcgggggtgc | tggggaggga | gagtaccagg | aagaatagct | aagggtact | gggcttaata | 780 |
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| ataaaaataaa | ataaaaataaa | ataaaaataaa | ataaaaataaa | ataaaaaaat | aaaaataaat | 1260 |
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| acttttcttt | gttcgctgca | gtgccgccct | acaccgtggt | ctatttccca | gttcgaggta | 2040 |
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| tggagacgtg | gcaggagggc | tactcaaaag | cctcctgcgt | aagtgaccat | gcccgggcaa | 2460 |
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<400> 9

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| ttctttgggt | ctcggagacc | tcaacccttt | cttcagattg | caaacccttct | tgccttcaag | 180 |
| cctcggctcc | aacaccagtc | cggcagagga | accaggtcta | atgaggtacg | ctcccttcct | 240 |
| gccattctct | attccattaa | cctgtttcgt | ggtaaactga | ggactgatcc | tccaaaatta | 300 |
| ccttattaat | tagcttacat | atattattatc | tatctgtccc | accagaatgc | aggtttccgg | 360 |
| aaggcaggga | tttaaaaaaa | tctgttttgt | tctatgtgat | tttcccatac | caagcaccgt | 420 |
| gccccgcaca | agctgggac | ccagtacaca | tctcgggacg | gaagaaccgt | gtttccctag | 480 |
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| ggtagagcgc | gccagcgagc | cgggagcgcg | gagctgggag | gagcagcgag | cgccgcgcag | 660 |
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| ttcagcgagc | ggggtcttag | cgccggggag | gtctacttcc | ttttgggggt | gccattttac | 1860 |
| tattattatt | gccttttttt | tttcttcaaa | aggactggag | actgatgcat | gagggggcta | 1920 |
| cggaggcgca | ggagcggtgg | tgatgggtctg | ggaagcggag | ctgaagtgcc | ctgggctttg | 1980 |
| gtgagggctg | acagtttatc | atgaccgtgt | tcaggcagga | aaacgtggat | gattactacg | 2040 |
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<400> 10

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| aagtgacttg | accaaggcag | gtgcacagct | attctgcaac | attgggaaca | aatctcaggt | 180 |
| cttttgattt | tttgtttcca | ctttactctc | ttttcatttc | ccagaaacaa | agttttcatg | 240 |
| tgcttttttt | tatagtgata | tgtttggaat | gcattagcta | gtaatttagg | aagggaaaaa | 300 |
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| | | | | | | |
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| cagaggggtga | ttattatcat | ggtagagaa | tatttaata | gtgtaagtaa | aattttctctg | 420 |
| tgggctgggc | actgtacaaa | gactcaaacg | aatctgtcta | cagatctgaa | aagcagatac | 480 |
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| cccatcccg | cccgcggggc | actcggaggg | cagcgcgccg | gaggccaagg | ttgccccgca | 4080 |
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11/93

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<212> DNA

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| agggacaccc | ggggacgggg | cctcactcac | cctgcacgtg | acagggacac | ccggggacgg | 360 |
| cgctcactc | accctacacg | tgacagggac | acccggggac | ggcgctcac | tacacctaca | 420 |
| cgtgacaggg | acacccgggg | acggcgctc | actcacccta | cacgtgacag | ggacacccgg | 480 |
| ggacggcgcc | tactcacc | tacacgtgac | agggacaccc | ggggacggcg | cctcactcac | 540 |
| cctgcacgtg | acagggacac | gcggggacgg | cgctcactc | accctgcacg | tgacagggac | 600 |
| acccgggggc | ctcgctcaa | tacacctgca | cgtgacaggg | acaccggggg | acggcgctc | 660 |
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12/93

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<211> 3190

<212> DNA

<213> Artificial Sequence

<220>

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<400> 12

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| gtagttacgt | atTTTTTTTT | agtggcgctc | gaattgtaaa | gtatttgatga | gtttgcggaa | 1980 |
| gtagttag | atTTtagttc | gttttagttc | ggttcgattc | gatcgtattc | ggcgtttgtt | 2040 |
| ttcgttcggc | gttttcgggt | agttatgggt | ttttggagtc | gtagtttttc | ggcgttggtg | 2100 |
| ttgttggtgt | aggtatttcg | gattttttga | tttgcgaggg | acgtattcgg | gtcgtaaagt | 2160 |
| tcgcgtttta | gttttgcgtt | tttttttttt | tcgtcgttat | cgtttttttt | tttttaagaa | 2220 |
| agttcggggt | ttgaggagcg | gagcgggtttg | gaagtttcgc | gcgtttcggg | tttttttagtg | 2280 |
| atgggagtg | gggggtgggtg | gtgagggggcg | agcgcgggtt | ttttgttttt | tttagcgtag | 2340 |
| atcgaggcgg | gggcgttttg | tcgcggaggt | cgcgggggtg | gttcgcgcgg | gcggtggggg | 2400 |
| cgtgaagcgg | ggtgtagggg | gtgggtgtg | gagaaggggt | gttttggtgt | aagtcgaggg | 2460 |
| ggagttagga | gtcgtgggga | cgattttcga | gggaaggaga | gggtattcgg | tagaaataaa | 2520 |
| ggtatttggt | atgttaagaa | aggtcgtaaa | taggagtgag | ggtttcgggg | ataagaaagt | 2580 |
| gaggtcggag | gaggtgggag | cgtttttcgt | tttgaggagt | ggtgtatttt | cgttttaagg | 2640 |
| aaagtgggg | attggagaat | aaagataatt | tttaataaaa | gagaaaggag | attgaaagg | 2700 |
| aacggtgggt | taggttttga | gggggtgatt | cggcgggttt | ttttcgggag | tttttgggg | 2760 |
| ttcggcgggt | gtaggtttcg | gggtggggga | gggtgacgtc | gttggttcgt | cgtttcgggg | 2820 |
| ttgcgggttg | gggttttttt | tttaatttcga | cgtcgggagc | gagggagggg | cggcgttggt | 2880 |
| ggtttcgggtg | agtaggagg | aatTTtttcga | gttattcggg | tttattttatt | ttttttttat | 2940 |
| tttaggtttt | tttttggttt | tgtaggaggt | cggagttttg | ttattttggt | tttgacgtcg | 3000 |
| agagttatac | gtttacgggtg | tttcggcggt | atTTggagag | aggtcgcgtt | ttgggtagag | 3060 |
| gtgagggcgc | gttgtcgggtg | tttttggg | gagtagggag | gggttgga | ggggtcgaga | 3120 |
| aattgtattt | ttatatTTTT | gggttgta | gggtaagttt | tttttttggt | ttaaacgata | 3180 |
| ttttttgga | | | | | | 3190 |

<210> 13

<211> 3190

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 13

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| gagtgtaatt | tttcggtttt | tttttaattt | ttttttattt | cgttttagga | tatcggtagc | 120 |
| gcgtttttat | ttttgttttag | gacgcggttt | tttttttaggt | ggcgtcgggg | tatcgtgaac | 180 |
| gtgtagtttt | cggcgttaaa | gttaggggtg | taggggtttcg | gtttttggta | gagttaagag | 240 |
| gagatttggg | gtgggggaaa | gtagatgga | atcgggtgat | tcggagggtt | tttttttggt | 300 |
| tatcgaaatt | aatagcgtcg | tttttttttc | gttttcggcg | tcgggattgg | gggaggattt | 360 |
| tagttcgtag | tttcggggac | ggcgggtagc | gacgttatatt | ttttttattt | cgaaatttac | 420 |
| ggtcgtcgag | tttttaggaa | ttttcgggag | gggtcgtcg | agttattttt | ttaagattta | 480 |
| gtttatcgtt | tttttttagt | tttttttttt | atTTtattgg | agatgttttt | atTTtttagt | 540 |
| atTTttattt | tttttagatcg | ggaatgtatt | atTTtttaga | gcgagggg | ttttttattt | 600 |
| tttcgatttt | atTTttttat | tttcgggatt | tttattttta | tttacgattt | tttttggtat | 660 |
| ggtaggtggt | tttattttta | cggatgtttt | tttttttttt | tcgaagatcg | tttttacgat | 720 |
| ttttgggttt | ttttcgattt | gtattagggt | atTTtttttt | tatatTTtat | tttttatatt | 780 |
| tcgtttttacg | tttttatcgt | tcgcgcgag | ttatttcgcg | gatttcgcgg | ttagacgttt | 840 |
| tcgtttcgg | ttgcgttgga | gggggtagga | aagtcgcgtt | cgtttttttat | tattttattt | 900 |
| ttattttttat | tattgggggg | ttcggagcgc | gcgaggtttt | taggtcgttt | cgttttttag | 960 |
| gattcgaatt | tttttggaag | aagggaaagc | gtgacgacg | gagaggaagg | ggcgtagggt | 1020 |
| tggggcgcgg | agtttcgggt | tcgaatgcgt | ttttcgtaa | ttaggggatt | cggggatttt | 1080 |
| gtagtagtag | tagtagcgtc | gagaggttgc | ggttttaagg | gtttatgggt | ggtcggggac | 1140 |
| gtcagagcag | ggtaggcgtc | gggtgcgggtc | gggtcgggtc | gggttgga | gggttgga | 1200 |
| ttgaattgat | tttcgtaagt | ttatagggtg | tttgtagttt | cgacgttatt | gagaggggg | 1260 |
| gcgtggttgt | agttagggtga | gtttcggagg | tatcgttttt | cgtatcgttg | attggttgag | 1320 |
| ggtttatttg | tcggttatag | tttaattagta | gcgcggattt | ttttttagg | cggagttgac | 1380 |
| ggttcgttta | ttcggtttcg | tatagacgcg | gtgatttttt | agtttgaggt | tgtaggtg | 1440 |
| taggtgggtt | atgggatttg | tacggttttg | atTTtattgg | gttcgaattt | tagtttcgtc | 1500 |
| ggtggtttat | taagatttgg | gattagaaag | ggtttttata | tttggttgag | tttttttggt | 1560 |
| ttttgggatt | ttttgtttgt | tcgtttttgga | gatgggggtt | tattttttta | tttaagttgg | 1620 |
| agtgtagtgg | tcgattata | gtttattgta | gtttcgaatt | tttggtttta | agcggttttt | 1680 |

| | | | | | | |
|-------------|-------------|-------------|------------|-------------|------------|------|
| tggttttagt | tttttagta | gttgggagta | taggtgtata | ttattacgtt | aggttaattt | 1740 |
| tttttttttt | tgtttttttg | tagagagata | agtcggggcg | gataggggta | gtgggggcgt | 1800 |
| tgtgtttttt | tgtattgttt | agtttggttt | cgaatttttg | ggttgaagcg | atttttttgt | 1860 |
| tttggttttt | taaagtgtta | ggatttttag | tgtgagttat | gagttattga | gttagtagtt | 1920 |
| taattttttg | tttggtttgtt | ttgtttgtat | tttttgagac | ggagtttcgt | tttggtttgt | 1980 |
| ttaggttgga | gtgtagtggt | acgatttcg | tttattgtaa | ttttcgtttg | tcgggtttta | 2040 |
| gagatttttt | tgtttttagt | tattgagtag | ttgggattat | aggcgtgtgt | tattatctcg | 2100 |
| gttaattttg | tatttttagt | atagacgggg | ttttattatg | ttggtttagt | tggtttgaa | 2160 |
| tttttgattt | taggtgattt | atttttttta | gttttttgaa | gtgttggtt | ataggcgtga | 2220 |
| gttattgtat | tttgtttcga | gcggtttaatt | tttttaaaaa | atttttttag | agaggggatt | 2280 |
| ttattatgtt | gtcgagggtt | atttttaatt | tttgaattta | ggcgattttt | ttgttttagt | 2340 |
| ttttttattg | agtttttatt | tttttaattta | gtttttttta | attgtagagt | tttatgggtt | 2400 |
| agttagtttag | taaattgatt | tttttaggtta | ggattatttt | ttaaagtttt | agttttttta | 2460 |
| tttttttaatt | gggaataatg | attagaaatg | tttttttatg | ttgttggtgg | atttttatat | 2520 |
| aattaaaaatg | ataaatgttt | tttgagttat | aaatgttttg | tatagaagtg | aggggtaaaa | 2580 |
| atagtaataa | taggggttagg | tatggtggtt | tacgtttgta | atttttagtat | tttgggaggt | 2640 |
| cgaggcgggt | agattacgag | gttaggagat | tgagattatt | ttggttaacg | tagtgaaatt | 2700 |
| tcgttttttt | taaaaatata | aaaaattagt | taggcgtggt | ggtgggcgtt | tgtagtttta | 2760 |
| gttattcggg | agggttaggt | aggagaatgg | tatgaatttg | ggaggtggag | tttgtagtga | 2820 |
| gtcgagatcg | cgttattgta | tttttagttg | ggcgatagag | taagattttg | ttttaaaaaa | 2880 |
| aaaaaaaaaa | aaaaaatagt | aataataggt | gttggaattt | gaagattatt | gtgttagttt | 2940 |
| ttgtgttaag | tatttgatat | tgattagttt | tttttttttt | gagacggagt | tttgttttgt | 3000 |
| cgtttaggtt | ggagtgtaat | ggtgtgtttt | tggtttattg | taattttcgt | tttttgggtt | 3060 |
| taagcgggtt | ttttttatta | gttttttgag | tagttgggat | tataggtatg | cgttattacg | 3120 |
| attggttaatt | ttttgtattt | ttagtagaga | tagggtttta | ttatgttggt | taggttggtt | 3180 |
| ttgaattttt | | | | | | 3190 |

<210> 14

<211> 2301

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 14

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| gtcgttagtt | tttcgtgtaa | ttttattttt | tgaaaaagtg | gaattagttg | gtattgttta | 60 |
| gcgtgatttg | tgagggtgag | ttttaatagt | ttaaagaagt | aaatgggatg | ttattttcgc | 120 |
| ggggttcgtt | tttcgcgagg | tgtttatttc | gtatttgtaa | tgtaaaacga | gggagcgtaa | 180 |
| ggaaggaatt | cgttttgtaa | agttattggt | tttggttatt | agtttttatt | taatgttttc | 240 |
| gtgatgttgt | tgttgattta | tttggggaagt | tggttggttg | gcgaggtaga | gttttttttt | 300 |
| aaagttttgt | ttttacggaa | aatatgttta | gtgtagtcgc | gtgtatgaat | gaaaacgtcg | 360 |
| tcgggcgttt | ttagtcggat | aaaatgtagt | cgagaatttc | gttcgttttg | tgcgtttttt | 420 |
| tgtttttaggt | agggaagagg | ggttgtcggg | cgcgttttgc | gttttcgtttt | tgtattcggg | 480 |
| tcggttcggta | cgggttaggg | gaggggggtt | tcgggggggtc | gggggttttcg | gtcgcggcgg | 540 |
| cgaagataga | tcgggggttcg | gtagggaggt | tatttcgagt | ttagagattt | taggtatttt | 600 |
| ttatatatag | gtttttattt | tggcgtgcgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 660 |
| gtgtgtgtgt | gtacgttcgt | taacgggagg | aggagagagt | tttttagttt | ttttgttag | 720 |
| taggggcgat | attttcgttt | atattaagt | gggtaatttt | gggttttttt | ttcggaggtt | 780 |
| cgggtgtattg | gagaaagatt | tagttagagg | cgatttttaac | gagtcgcggt | tttttttagt | 840 |
| ttaacgttta | gcggtcgaag | cgttgttcgg | gttcggattg | cgggatgcgg | ggttgagag | 900 |
| gtcgagtagg | tattatcgat | tttttagggc | gttcgggttt | tttggtatag | ttcgggttgt | 960 |
| cgttggaagg | cgtttcgggg | tagtagagag | tttttagttcg | gttggtgttg | tcgtttaaag | 1020 |
| gcgtcggcgt | cggtcgtatt | cgtatcgggg | tttttttgtt | tttagatttc | gggttcgaaa | 1080 |
| gggtcggagc | gtgttttttcg | ttagggcgta | ggtttttagtt | tttcgtattt | ttattgttta | 1140 |
| gttagttgga | gttttcggtta | gatttcgggt | tgtcgttttt | gttggttttt | ttgagcggga | 1200 |
| gcggagcgta | gagaaaagtt | taagttttgt | ttattcgggt | tgtagttgtt | tgtaattttt | 1260 |
| tagagcgtaa | cggcgcgagg | gaaggggtacg | tttaattagga | gagggggcga | gggagatgcg | 1320 |
| gttcgtttgt | agttattttt | gtatttttaga | gatttcggga | agtttgagtg | taggaaagta | 1380 |
| gcgtttcgag | gttaggtttg | gggtgtgtgt | cggttcgggg | ggtagcgttt | gcgttggtta | 1440 |
| gggttttgtg | gttttcggaga | gtatttcgat | ttagtttttt | atcgtttttt | tggtaggcgt | 1500 |
| tgggatttgg | agttagttgg | tagtttgttaa | gtgggtggat | aagagttagg | gtagggtagg | 1560 |

16/93

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| gtcgggtaga | gtaaggaggg | aaagagatag | ggagtgtttt | aggggtgttag | gaatgagtgt | 1620 |
| tgagtttttg | gtcggggtag | aggtttaggt | gagagtgttc | gggtgaaagg | taggggaagg | 1680 |
| gagttgggtt | tttaggttag | gattgttttg | gatggggaga | ttggtgtaga | tttttaaggg | 1740 |
| agattattgt | tagagtaatg | ttgggttttag | attttggaaa | tgggttaata | ttttagaaat | 1800 |
| gtagtgatgg | gtgatagtat | taggggagat | ttaagtgttc | ggttgttgag | ttcgttttta | 1860 |
| agttttttgat | tttttttttg | gatataatag | ttcgattaag | gattgttttag | ttatagtttt | 1920 |
| ttttttatta | ggtttttttg | gttgattatt | ttgggggtttt | tatagttttg | agttttgtta | 1980 |
| tggatttttaa | gtttgggtgt | gaattagttt | tttagatggt | ttgtatttta | gagatttttaa | 2040 |
| ggttgtatgt | gtgtatatat | attttaaatt | agtaaggcgg | tttggagtat | gttttagata | 2100 |
| gaaaggattt | agatagattt | ttttgtttat | ttgttagtgg | tattaattcg | ggtaagttgt | 2160 |
| ttaatttttt | tgagttttta | agttttttat | tgtaaaataa | tttgtttgtt | ttttaggatt | 2220 |
| gttgagtgga | taggattgta | tttaatagga | tgttttatgt | aatgtatggt | agtttgggag | 2280 |
| ttgtcgggtg | ttgagagtat | t | | | | 2301 |

<210> 15

<211> 2301

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 15

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| atgtaatttt | atttattttag | tagtttttagg | aaggtagtag | attattttat | aatggagaat | 120 |
| ttggaagttt | aaagaggtta | aataatttgt | tccgggttgg | attattagta | gatggtagga | 180 |
| aggattttgt | tgaatttttt | ttgtttgagg | tatgttttaa | atcgttttgt | taaattgggg | 240 |
| tatatgtata | tatatatagt | tttgggggtt | ttagggtata | ggatatttgg | aaaattgggt | 300 |
| tatagtttag | tttgggattt | atggtaagat | ttaaggttgt | agggatttta | agataattaa | 360 |
| ttagaaaagt | ttggtagaaa | aggagttata | attgggtagt | ttttaatcgg | gattgtatat | 420 |
| ttaagaaaga | agttaggagt | ttgggagcgg | gttttagtagt | cgggtatttg | aatttttttt | 480 |
| ggtattatta | tttattattg | tattttttgag | atgtttagttt | atttttaaaag | tttaaattta | 540 |
| atattgtttt | aatagtgggt | tttttttagaa | gtttgtatta | gtttttttat | tttagatagt | 600 |
| ttttatttgg | gaatttaatt | tttttttttt | gtttttttat | cgtaaatttt | tatttgagtt | 660 |
| tttatattcg | ttagggaatt | aataatttat | tttagtattt | tgaggatttt | tttgtttttt | 720 |
| ttttttttta | ttttgttcgg | ttttgttttg | ttttgggttt | tatttattta | tttgtagggt | 780 |
| gttagtttat | tttaagtttt | aacgtttgtt | agagaggcga | tgggggattg | gatcgggggtg | 840 |
| tttttcgaaa | ttatagggtt | ttgagtagcg | tagggcgtgt | ttttcgtagc | ggttagtatt | 900 |
| ttaggtttgg | tttcggagcg | ttgttttttt | gtatttaaat | ttttcgaat | ttttgaggtg | 960 |
| tagagggtgat | tgtaggcgga | tcgtattttt | ttcgtttttt | tttttggttg | gcgtgttttt | 1020 |
| ttttcgcgtc | gtggcgtttt | gagggttaat | aagtagttgt | agttcgggtg | ggtaagggtt | 1080 |
| gaattttttt | ttgcgtttcg | ttttcgttta | gggaaggtag | tagaggcggg | agttcgggat | 1140 |
| ttggtcggag | tttttagttg | ttggataata | gggggtcggg | gggttggggg | ttgcgttttg | 1200 |
| gcgggggata | cgtttcgggt | ttttcgggtt | cgggggttgg | gagtaaaagg | atttcgatgc | 1260 |
| gggtgcggtc | ggcgtcggcg | tttttgagcg | atagtagtag | tcgggttgag | gtttttttgt | 1320 |
| gtttcggagg | gttttttagc | gggtagtcgg | gttgatttag | ggggttcggg | cgttttgga | 1380 |
| agtcgggtgt | gtttgttcgg | tttttttagt | ttcgtatttc | gtaattcggg | ttcagtagtc | 1440 |
| gtttcgggtc | ttgggcgttg | ggttggggaa | aatcgcggtt | cgttgaggtc | gttttttaatt | 1500 |
| gagttttttt | ttaatgtatc | gagttttcgg | aggagggaat | taaagttatt | ttatttgatg | 1560 |
| tgggcgagaa | tgtcgttttt | gttagtaaaa | aaggattggg | agtttttttt | ttttttcgtt | 1620 |
| aacgaacgta | tatatatata | tatatatata | tatatatata | tatatatata | tacgtacgtt | 1680 |
| agagtgggag | tttgtgtgtg | gggggtgttt | aggatttttg | ggttcgggaat | gattttttta | 1740 |
| tcgagtttcg | atttgttttc | gtcgtcgcga | tcggagggtt | cgaatttttc | aaagtttttt | 1800 |
| tattttgttc | gtgtcggggc | attcgaatgt | agaaacgggg | cgtagagcgc | gttcggtagt | 1860 |
| tttttttttt | tatttgggat | aggagaacgt | atagaacgag | cggagttttc | ggttgtattt | 1920 |
| tgttcgatta | gaagcgttcg | gcggcgtttt | tatttatgta | cgcggttgta | ttgagtatat | 1980 |
| ttttcgtggg | agttagggtt | tgaggagagg | ttttgtttcg | ttagttagtt | aatttttttaa | 2040 |
| atagattagt | agtagtatta | cgaaagtatt | gggtagaggt | tgatgattag | gattaatggt | 2100 |
| tttataagac | ggattttttt | ttaacgtttt | ttcgttttgt | atggtagata | cggggtgagt | 2160 |
| atttcgcgag | gcgcgaggtt | gtcgttttgt | gtattttatt | tgtttttttg | gattgttggg | 2220 |
| gttttagttt | ataaattacg | ttgggtaatt | ttagttagtt | ttattttttt | agagaatgga | 2280 |
| attgtacggg | ggattggcgg | t | | | | 2301 |

<210> 16
<211> 2501
<212> DNA
<213> Artificial Sequence

<220>
<223> chemically treated genomic DNA (Homo sapiens)

<400> 16

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| gattgcgttg | tttttttggt | gttttttttcg | ttttcgtagg | cgcgcggggg | tattatttac | 120 |
| gcgcgtattg | taggtttttg | cgtacgacgt | tttagatgaa | gtcgttatag | aggtcgtatt | 180 |
| acgtgtgctg | ggcgggtttc | gcgggttgga | agcgggtggt | acggttaggg | attagttgtc | 240 |
| gtgtgggggt | gtacgcgggt | tttcgcgcga | tgcgtagcgc | gttggtacgt | tttagtcggg | 300 |
| tgcggttttt | tttagcgcgt | ttagcgggtg | ttagtttttcg | tagtttaatg | agtttaggtt | 360 |
| ttttcgatat | ggttcgggtg | ggttcgtggt | tcgttggttt | tgggcgttag | taagcgcggg | 420 |
| tcgggcgggg | ttatagggcg | ggtttcgatt | ttagcgtttt | ttttaggatt | tagattgggc | 480 |
| ggcgggaagg | agttgaggag | agtcgcgtaa | tggaaatttg | ggtgtaggga | ttgtgggggt | 540 |
| cgaaggcggg | gttgggcgcg | ttttcgtaga | gttttttttcg | ttttgttttt | tttttttttt | 600 |
| ttcgtttttt | ttttataatt | tatttcggac | ggttataacg | acggcgatcg | taaagtatta | 660 |
| cgcgagagata | ttcgtgtttt | tggaggttag | ttttattgtg | ttagagggaag | agggttttta | 720 |
| tattcgggtt | tgggtttttt | ggttcgggtt | gttgaagtaa | tatatttggt | ttatttattg | 780 |
| ggtggggtag | gaagtttcga | gtttttatatt | ggggtgagga | ggaggagat | cggttagtag | 840 |
| ttttatcgtt | cgttttggtt | tttattgcgg | agattggggg | ttcggtagag | gttggatcgt | 900 |
| gattttgagg | tttaggggtg | tattttgggt | ggattttttt | ggtatgggtg | gtcggttttt | 960 |
| agtaattgta | gttttttatt | ggttttgtta | ttttgggttg | ttaggatata | agttttttta | 1020 |
| tgtttttttt | agtgtttgat | ttggtatttt | ttgtaggtag | gtgggtattg | aggatggtaa | 1080 |
| tgtatgtggg | ggatgtggga | gtagggttta | gagggttaag | gttttaggat | atttttatatt | 1140 |
| gtagtaatat | tattttatatt | ggatcgtga | gtacggttta | gaagtttttg | tattgtagta | 1200 |
| agtatagcgg | ggcgtttttg | gagttattgt | tttttagtata | tttagtttgt | agggttttagt | 1260 |
| ttatttgggg | gaaagtttag | aaggtttgat | tggtttttga | agggtggggg | atttttattta | 1320 |
| tattttatgt | ttttgtattt | tttttatatt | ttttgtttat | tttatagggt | ttattttcgc | 1380 |
| gtttgtagtc | gtaggttttg | ttttgagggg | ttgaatatat | gttgaggttg | gtgtttggta | 1440 |
| attgttttgt | atttgttttt | gttttttcgt | tttagtcgtt | tttagatttt | tgggatttag | 1500 |
| gagagagaag | tggagagtgg | taggaagggt | ttggtaaagt | gggatatgtg | ttttgagtag | 1560 |
| ttaatttttt | agtgtttatt | tgttttaata | ttagggtttt | tttagagggt | tgggttttag | 1620 |
| ttagggttag | atgggttagg | aaattttgta | agtgggttag | gttgggtagt | tgggttagta | 1680 |
| gtgtgtttgt | gaggaagggt | cgaagtgtga | aggggtgtta | gtggagggtta | gtgtgatgta | 1740 |
| ggtgttggtt | aggggtttaa | ggaaaaggaa | gggttggggt | tgggttgaga | atgtttgtgg | 1800 |
| gggtttatgt | tttattagtt | ggtgtgttat | ttgaggttta | aggattgaaa | agagtattgg | 1860 |
| ggttgagggt | ggtgggtaaa | gataaatagt | agggacgtag | tcggggtagg | atggggaggg | 1920 |
| cgttattggg | gttgtggggg | ttggtgcgga | gggagtttga | ttttgagtag | tcgttttttg | 1980 |
| gtaaaaattt | tgaggtagta | gcgcgtttga | gttttagggg | ttagtagtag | gttgtatagg | 2040 |
| gcgattttata | ttgttcgtt | taatttggtt | agttttttgt | gttttgaggg | ggttatagta | 2100 |
| tgttaacggt | tgttttcga | ttgttgtagt | ttgtttgggg | agaggaatta | gtatattggg | 2160 |
| tgtagacgtt | gaattttttt | taagttaggt | agttgtgggg | gttgggagat | tgattattgt | 2220 |
| ttgggaatgg | gagaatttgg | gttgtaggat | ttgttttaggt | tatagggttg | ttgatttttag | 2280 |
| agtaggggtga | gttttagtag | tggatatatg | ggtttggttt | gttgtagagt | ttaggtttag | 2340 |
| gttaattttg | gttgaggtat | tttggtattt | ttagtgggtt | tggggatagg | gtttgttttc | 2400 |
| gtgtgtgtaa | gttggttttt | tttattaaaa | agatattttg | aagtagtagt | ttgggggtta | 2460 |
| ggttggtggg | ggaggatttt | attttttttt | cgtcgggttt | a | | 2501 |

<210> 17
<211> 2501
<212> DNA
<213> Artificial Sequence

<220>
<223> chemically treated genomic DNA (Homo sapiens)

<400> 17

| | | | | | | |
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| tgagagtcggc | gggaaggagg | taggggtttt | ttttattagt | ttaagtttta | ggttattggt | 60 |
| ttagggtatt | tttttgatag | aggggggtag | tttgatatata | cgaagataaa | ttttggtttt | 120 |
| aagtttattg | aggatattag | gatgttttag | ttaagggttg | tttagatttg | agttttgtag | 180 |
| taggttaggt | ttatgtgtt | attattgagg | tttattttgt | tttggggta | gtagttttat | 240 |
| agtttgggta | agttttgtag | tttaggtttt | tttattttta | ggtagtgggt | agttttttag | 300 |
| tttttatagt | tggtttattt | gaagagaatt | taacggttgt | atttagtgtg | ttgggttttt | 360 |
| tttttaggta | agttgtagta | gttcgagggg | agtcggtggg | atattgtggg | ttttttagag | 420 |
| tagtaaaagt | tgagtaagtt | ggacgggtaa | gtgtggatcg | ttttgtataa | tttggtgtta | 480 |
| agttttgagg | tttaggcgcg | ttattgtttt | ataagttttg | ttaagggacg | gttatttaag | 540 |
| gtagattttt | tttcgtatta | gtttttatag | ttttagtatc | gtttttttta | ttttatttcg | 600 |
| attgcgtttt | tgttgtttat | ttttgtttat | ttattttaat | tttagtgttt | tttttagttt | 660 |
| ttgggtttta | ggtgatata | tagtttagtg | gataatgggt | tttataggta | tttttagttt | 720 |
| aatttagttt | tttttttttt | tttggttttt | tggtagtat | ttgtattata | ttgggtttta | 780 |
| ttggatattt | ttgtagtttc | gggttttttt | tatagatata | ttgttggttt | agttgtttta | 840 |
| tttggtttat | ttgtagagtt | ttttgggtta | tttgatttta | attgaaattt | agttttttta | 900 |
| gaaggatttg | gtgttggaat | aggtaggtat | tggaaagtta | gttggttagg | attattgttt | 960 |
| tattttatta | gtattttttt | gttatttttt | attttttttt | tttagatttt | agaaatttgg | 1020 |
| gagcgggttg | agcgagaaaa | tagaggtaag | tggtaggtta | ttgttaagta | ttagtttttag | 1080 |
| tatgtgttta | gttttttaga | gtaggatttg | cgggtgtagg | cgcgaaggta | aggtttgtag | 1140 |
| aaatggtagg | gaggggtggag | gggatgtagg | aggtaggtat | gtgggtgggg | tgtttttatt | 1200 |
| ttttagggtt | agtttagattt | ttttgatttt | tttttaggtg | ggttgagatt | tatagggttg | 1260 |
| atgtgttaga | ggtagtgggt | tttagagcgg | ttcgttgtgt | ttattgtagt | gtagaggttt | 1320 |
| ttaagcgttg | tttacgatgt | tagaatgagt | ggtaattgtt | taggtgaggg | tatttttagaa | 1380 |
| ttttggattt | ttaagtttta | tttttatatt | ttttatatgt | attgttattt | ttaatatatta | 1440 |
| tttggttgta | gggagtgtta | agttaagtat | tgggaaaagt | atggaaagat | ttgtgttttg | 1500 |
| gtagtttagg | gtgatagagt | taaatgaggg | ttgtagtgtt | tgagggtcga | ttatttatgt | 1560 |
| taagggaaat | tatttagaat | gtatttttga | attttaagat | tacggttttag | tttttgcctg | 1620 |
| agtttttagt | ttcgtagtgg | agagtagagc | gggcggtaaa | gttggtgatc | gatttttttt | 1680 |
| ttttttattt | taagtgaagg | ttcgagattt | tttgttttat | ttagtgggtt | ggtttaagtgt | 1740 |
| gttggttttag | taaatcggat | taggaggggt | agggtcggat | gtggggattt | ttttttttta | 1800 |
| gtatagtaaa | gttggttttt | agaaatacgg | gtatttttcg | gtgggtgttt | gcggctcgtc | 1860 |
| tcgttgttgt | cgttcggggg | gggtgtgag | gaggggacga | aggagggaa | gaagggtaag | 1920 |
| gcgggggggg | ttttgcgaga | gcgcgttttag | tttcggtttc | gggttttata | gtttttgtat | 1980 |
| ttagggtttt | attgcgcggg | tttttttagt | tttttttcgt | cgtttagttt | ggattttggg | 2040 |
| ggaggcgttg | aagtcggggg | tcgttttgtg | gtttcgttcg | gttcgcgttt | gttagcgttt | 2100 |
| aaagttagcg | aagtaacggg | ttaatcgggt | tatgtcgggg | gagtttgagt | ttattgagtt | 2160 |
| gcgggagttg | gtattcgttg | ggcgcgttg | gaagggtcgt | attcgggttg | agcgtgttaa | 2220 |
| cgcgttgctg | atcgcgcggg | gtatcgcgtg | taattttata | cggtagtttg | tttttggtcg | 2280 |
| tggttatcgt | tttttagttc | cgggttcgt | tacgtatacg | tggtagcatt | tttggtggcg | 2340 |
| ttttatttgg | ggcgtcgtgc | gtaaagggtt | gtagtgcgcg | cgtgagtagt | ggtttcgcgc | 2400 |
| gttttacgaga | gcggaagggg | tagttaaggg | gtagcgtagt | cgtcgcgggt | taagtcgcgc | 2460 |
| tagagggggg | cggcggggat | agttttcgag | gattaggttc | g | | 2501 |

<210> 18

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 18

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|-------------|-----|
| agtataaaat | tgtttttaagt | ttttgatttt | gtattttattt | ttaagatttag | tgtttggttg | 60 |
| aagttttgtt | agtttttattt | ttattgaaat | agggtgtatat | ttagggttaa | agttaaatgg | 120 |
| atttgaaaaa | agtttttaagt | tttttttaat | gaatttgagg | tttttaaaat | gttttttaaa | 180 |
| tttttttttg | agacgataga | ttattatttg | atatttatta | ggattaaata | tttttttatt | 240 |
| ttttttattt | tgttgtttta | gtttattaat | aatttttttg | agggtaggaa | agtttggttag | 300 |
| attttttttt | ttaatatgtt | tttgaaaata | atttagttta | atttcgaaag | tataaatatg | 360 |
| gttaaaggta | gtagtagtaa | agattttatt | aattcgtaat | tttttattga | gttttcgaag | 420 |
| gtgtttttata | atgtttatta | agaagttaaa | gttataaagt | tattgtttgt | ttgagaagtg | 480 |
| gattgttggt | gttttttattg | aaattaagaa | cgtttttatt | ttttttttta | gagagaatat | 540 |

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| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tagttttaaa | gttttttttt | ttttaagtta | attgttttaga | tatcgtttat | taattttttt | 600 |
| attatgtttt | gatttagatt | tcgttagtaa | agtttgaaat | ttaggtcgtt | taacgttttt | 660 |
| ggttttaatt | aaaattattt | attcggatat | ggatattatg | atttgattaa | tatttatatt | 720 |
| ataggagttt | aatagtttta | agtgaagaaa | ttttgaataa | tgaatgatat | tttaatatgt | 780 |
| ggggtttacg | gttttttttt | ttatgtatga | gacgagtttt | gagtttttat | taattatttt | 840 |
| taaagtatgg | gtcgtgggta | gtttaattat | tttttgtaag | ttaagttttg | ttgtttgtag | 900 |
| ggatttttagg | attgtcgata | tgagcgtatt | aatattgaaa | tgatgagtta | ggttgattat | 960 |
| ggttagaaga | tttttttgta | tttttaattt | agggtttata | tcgcggataa | agattaggag | 1020 |
| gtagttttta | taggtttataa | aagtttggtc | gtttaaggta | agagaatagg | ttttaaagtt | 1080 |
| tttggttcgg | ttaaaaagtt | ggttgcgtag | atttttgtta | atgttttagga | ttttttgttt | 1140 |
| tgtgatattt | ggagataagt | taacgttttg | taggacgttt | atatgttcgg | gtagtatttt | 1200 |
| tttttagtaat | atttttatgt | attggtatat | aaagtttttt | ttatttttagt | cgcgattttt | 1260 |
| taagggttaag | aggcggtaga | gttcgagggt | tgtacgagta | gttttttttt | taggagtgaa | 1320 |
| ggagggttacg | ggtaagtcgt | tttgacgtag | acgtttttatt | agggtcgcgc | gttcgtcgtt | 1380 |
| cgttatatat | cgttcgtagt | attcgtgttt | agtttcgtag | tggcgtttga | cgtcgcgttc | 1440 |
| gcgggtagtt | acgatgaggc | ggcgatagat | taggtatagg | gttttatcgt | ttttcggagg | 1500 |
| ttttattatt | aaataacggt | gggtttattc | gggtcggaaa | attagagttt | cgtcgatttt | 1560 |
| tattttgttt | tttttgggcg | ttatttatat | tttgcgggag | gttataagag | taggggttaac | 1620 |
| gttagaaagg | tcgtaagggg | agaggaggag | tttgagaagc | gttaagtatt | tttttcgttt | 1680 |
| tgcgttagat | tatttttagta | gaggtatata | agttcgggtt | cggatatttt | gtttttattg | 1740 |
| gttggtatatt | tcgtattttt | cgagttttta | aaaacgaatt | aataggaaga | gcggatagcg | 1800 |
| atttttaacg | cgtaagcgta | tattttttta | ggtagcgggt | agtagtcgtt | ttagggaggg | 1860 |
| acgaagagat | ttagtaattt | atagagttga | gaaatttgat | tggtatttaa | gttgtttaat | 1920 |
| taatagtgtt | cgttgaaggg | tggggttga | tggcgtaagt | tatagttgaa | ggaagaacgt | 1980 |
| gagtagcgag | tattgaggtg | attggttgaa | ggatttttcg | ttgagtattt | agacgttttt | 2040 |
| ttgtgttttt | tggcggtaaa | atgtcgttcg | tggtaggggt | tattcggcgg | ttggacgaga | 2100 |
| tagtggtgaa | tcgtatcgcg | gcgggggaag | ttatttagcg | gttagttaat | gttattaaag | 2160 |
| agatgattga | gaattggtac | ggaggggagtc | gagtcgggtt | tatttaaggg | ttacgattta | 2220 |
| acgggtcgcg | ttatttaatg | gcgcgggatac | gtttttttgt | tcgggtagag | gtatgtatag | 2280 |
| cgtatgttta | taacggcgga | ggtcgtcggg | ttttttgacg | tgtaggttag | gttttttttt | 2340 |
| ttttcgtaga | tcgtgtgttt | ttttatcgtt | ttttttcgag | attttttaag | ggttgtttgg | 2400 |
| agtgtaaagt | gaggaatata | cgtagtgttg | ttttaatggg | atcgtttaatt | aagtaaggaa | 2460 |
| gttattttaat | ttaaaattat | gtatgtagaa | tatgcgaagt | t | | 2501 |

<210> 19

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 19

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|-------------|-------------|-------------|-------------|-------------|-------------|------|
| aatttcgtat | gttttgtata | tataattttta | aattaagtg | gtttttttatt | tagttaacgg | 60 |
| tattattaag | ataatattac | gtatattttt | ttattttatat | tttaaataat | ttttaaaagg | 120 |
| tttcggggga | gagcggtaaa | gaaatatacg | gtttgcggaa | aaggagaagg | tttgattggg | 180 |
| acgttaggga | attcggcggt | tttcgtcggt | gtgggtatgc | gttgatatatg | tttttgttcg | 240 |
| ggtaaagagg | cgtgttcgog | ttattgagtg | acgcggttcq | ttaagtcgta | gtttttaagt | 300 |
| gagttcgggt | cgattttttt | cgtattagtt | tttaattatt | tttttgatag | tattagttgg | 360 |
| tcgtttggata | atttttttcg | tcgcgatgog | gttttattatt | gtttcgttta | gtcgtcgaat | 420 |
| aatttttgtt | acgaacgata | ttttggcggt | agaagagtta | aggaaacgtt | tagatgttta | 480 |
| acggaagtgt | tttttagttaa | ttatttttagt | gtttcgtgtt | tacgtttttt | tttttagttgt | 540 |
| agtttacgtt | attttagtttt | attttttagc | ggtagttatt | gattggatag | tttgaatgtt | 600 |
| agttaaattt | tttaattttg | tgggtgtgtg | ggtttttttcg | tttttttttg | aagcggttat | 660 |
| tgttcgttat | ttagaaggat | atgcgtttgc | gcgttagaga | tcgttggtcg | ttttttttat | 720 |
| tggttcgttt | ttaggagttc | ggggaatacg | aatatttttag | ttaataggag | tagagatgtc | 780 |
| ggaatcgggt | ttgtgtgttt | ttgttgaggt | gatttggcgt | agagcggagg | aggtgtttgg | 840 |
| cgtttttttag | gttttttttt | tttttttcgog | gttttttttaa | cgttgggttt | gtttttgtgg | 900 |
| tttttcgtag | aatgtggatg | acgttttaaaa | gaagtaagat | ggaagtcgac | gaggtttttag | 960 |
| tttttcggtt | cgagtggatt | tagcgttatt | tggtgggtgga | gttttcggag | ggcgatgggg | 1020 |
| ttttgtgttt | ggttgttcgt | cgtttttatcg | tagttatttcg | cgaacgcgac | gttaggcgtt | 1080 |
| attacgaggt | tgagtacgaa | tattacgagc | ggtatgtggc | ggacggcgag | cgcgcggttt | 1140 |

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| | | | | | | |
|-------------|-------------|------------|-------------|--------------|-------------|------|
| tggtggagcg | tttgcgttag | ggcgatttgt | tcgtggtttt | ttttattttt | gaagagagag | 1200 |
| ttgttcgtgt | aggtttcggg | ttttgtcgtt | ttttggtttt | gaagggtcgc | ggttgggggtg | 1260 |
| agggggattt | tgtatattag | tgtatggagg | tggtgttgag | agaggtattg | ttcgagtatg | 1320 |
| taagcgtttt | gtaaggcggt | gatttatttt | tagatattat | aaggtagagg | attttgagta | 1380 |
| ttgataggaa | tttacgtaat | tagtttttta | atcgagttag | ggattttaaa | gtttattttt | 1440 |
| ttgttttgga | cgattaggtt | tttgtggttt | atgagaatta | ttttttgggt | tttattcgcg | 1500 |
| gtgtaggttt | tgagttggag | gtgtaagaag | attttttgat | tataattaat | ttgatttatt | 1560 |
| attttagtgt | tggtgcgttt | atgtcggtaa | ttttagagtt | tttgtagata | gtagggttta | 1620 |
| gtttgtagag | aatggttgga | ttgattacga | tttatatttt | gaggatgatt | ggtgagaatt | 1680 |
| taggattcgt | tttatatatg | agagaaaagg | tcgtaagttt | taattgttgg | aatgttattt | 1740 |
| attatttagg | atttttttat | ttggaattgt | tgagttttta | tgatgtagat | gttaattaga | 1800 |
| ttataaatat | tatattcgaa | tggatagttt | tgattaagat | tagaggcggt | aggcgatttg | 1860 |
| aatttttagat | tttattaacg | gaatttgaat | tagagtatgg | tgaagggtt | aatggacgat | 1920 |
| gtttgaataa | ttggtttagg | agagggaaaa | ttttaaaatt | aatatttttt | ttagaaaaag | 1980 |
| aatggaagc | gtttttgggt | ttagtagggg | taataatagt | ttatttttta | gataaataat | 2040 |
| ggttttgtga | ttttggtttt | ttggtggata | ttatggaata | ttttcgagaa | tttagtgaag | 2100 |
| aattacgagt | tagtaaagtt | ttgtttgttg | ttgtttttga | ttatatattgt | attttcgaag | 2160 |
| ttaagttgaa | tttattttta | agatatattg | aggaaaaaaa | tttaatatagat | ttttttgttt | 2220 |
| ttagagaagt | tgttgatgag | ttaaaatagt | aaaataagga | agatgaaaaa | atatttgatt | 2280 |
| ttgataggta | ttaaatgggt | atttgtcgtt | tttaaaaaaga | atttgagaga | tattttaagg | 2340 |
| attttaggtt | tattaaaaag | gatttagaat | tttttttaaa | tttatttaaat | tttaaatattg | 2400 |
| aatatgtatt | tatttttagtg | agggtaggag | taataaaaatt | ttaggtaaat | attaattttt | 2460 |
| ggaatgaata | tagaattaaa | gatttggggg | agttttatgt | t | | 2501 |

<210> 20

<211> 3838

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 20

| | | | | | | |
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| gtagtaggta | tttgtttaag | tttgatggaa | ggattttttt | agttttttta | tatatattat | 60 |
| gtaaagtgat | cgttgttttt | gttttttttt | ggagattatt | tattttattt | ttttgagacg | 120 |
| gagtttcgtt | ttgtcgttta | ggttggagtg | tagtgtcgtt | attttcgattg | attgtaattt | 180 |
| ttgtttttcg | agtagttggg | attataggcg | cgcgttatta | cggttcggtta | atttttgtat | 240 |
| tttttagtaga | gacgggggtt | tattatgttg | gttaggttgg | tttcgaattt | ttgatagtaa | 300 |
| gtgatttatt | tatcgcggtt | ttttaaagt | ttgaaattat | aggtatgagt | ttttatatcc | 360 |
| gttttaggagt | ttattttatat | gggagtttgt | ttttaaagat | tattatttgg | tgtttagggta | 420 |
| tttttttagat | ttgtttttat | atttttgtta | aataggagga | agtgaatcgc | gttttttttt | 480 |
| atttattttt | tcggagggtt | tatgttttta | atattaattt | tagtatagtt | aaagaaaatt | 540 |
| atttttatttt | attgagcgga | gttagaaata | tgattaggtt | acgattataa | tttcgtgtgt | 600 |
| gttaggggtga | tcgagattgg | gtgattttat | gggtgtttta | cgtgtgggtt | ttgattgatt | 660 |
| atattatggg | tttttttagtt | aaaaatttaa | agtagtggat | aaagtatttg | cgatttaaaa | 720 |
| taagtaatgg | aatgaatagg | aaggcgaaat | tagagtttta | agcggtagga | taaataaggaa | 780 |
| aaaggaagag | tgaggtagga | agggtttaaa | tgtaggtttt | tcggaggata | agtcgtcgtt | 840 |
| atatttttgt | ttgtcgtttc | gttagtcgtt | tttacgcggc | gcgggaaaac | ggtcgggtttc | 900 |
| gttttgggtt | taggtttttt | tcgttcgtta | ggtagtgagg | tttttttttg | ttttttttga | 960 |
| gacggagttt | cgtttagtcg | tttaggttgg | agtgtagtgg | cgtgatttcg | gtttattgta | 1020 |
| atttttattt | ttcgggtttt | agcgattttt | ttgttttagt | ttttcgagta | gttgagatta | 1080 |
| taggtacgcg | ttattacgtt | tagttaattt | ttgtattttt | agtagagacg | ggttttttatt | 1140 |
| atgttgggtta | ggatgggttc | gatgttttaa | cgtcgtgatt | cggtcgtttc | ggtttttttaa | 1200 |
| gtgttgggat | tataggcgtt | agttattgcg | ttcgggtttt | gttaggtagt | tttaatcgag | 1260 |
| cgtttataat | tattgagacg | tagtgaagta | tttattataa | aatttttagga | ggtcgatcgt | 1320 |
| cggttttagat | tttttttttt | ttttaatttt | cgtttaaggg | attcgttttt | atttttttatt | 1380 |
| ttagttattt | taattttttt | tttttttttt | ttggacggcg | tcggggaaaa | taagtgtttc | 1440 |
| gagttttatt | ttttcgggtgt | aatttaattt | gaatgaattt | tttcggtttt | gcgtgttttag | 1500 |
| tgagtcggta | tttttagtagt | gaattgtatt | taaaattttt | ggaattgagc | gaattttttt | 1560 |
| agtggttttt | ttttatcgga | tttttttttt | cgtttttttt | tcgtgtcgcg | tttttagttcg | 1620 |
| tattgtttat | tggtcgcgtg | ttttgttaat | tcgatgtacg | tcgggttaggg | taaagatcgc | 1680 |
| gaaaaagcgc | gtatatattg | ttttggggagc | gcgcgtttta | cgttaggttag | tagtaggagg | 1740 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| cgcgcgaggt | attacggttt | ggcggtcgag | agttagggag | gaattttatt | tatataacgg | 1800 |
| tcgttttttt | gttttttggc | gggggtcgga | gttttcgtttt | tcgtttaatt | tgaaatttgt | 1860 |
| tgggttacgg | gttagttatt | tcgatttagg | taagtttgtg | gtggagttgg | aagagtttgt | 1920 |
| gagggcggtt | tcgggagcgg | attgggtttg | ggagttttta | gagggcggtta | taagaatcgg | 1980 |
| gaattgggcg | cggggagttg | agttgttggg | agtgttcgtg | gtgtttgggt | cgaggtgggtc | 2040 |
| gttagttgat | ttcgcggagt | ttattttttt | ggttttttcg | ttttaacgtc | gttcgtttttt | 2100 |
| tagttaggat | gtttgttcgt | ggttcgggtta | tcggtatcga | tttgggtatt | atttattcgt | 2160 |
| gcgtcggggg | ttttttaatat | ggtaagggtg | agattatcgt | taacgattag | ggtaatcgtta | 2220 |
| ttatttttag | ttacgtgggt | tttacggata | tcgagcgttt | tatcggcgac | gtcgttaaga | 2280 |
| attaggtggg | tatgaatttt | attaatatta | tttttcgacgt | taagaggttg | attggacgga | 2340 |
| aattcgagga | tgttatagtg | tagtcggata | tgaaatattg | gtcgtttcgg | gtggtgagcg | 2400 |
| agggaggtaa | gtttaaaagt | taagtagagt | ataaggggga | gattaagatt | tttttttttag | 2460 |
| aggagatatt | ttttatgggt | tttacgaaga | tgaaggagat | cgcggaagtt | tatttggggg | 2520 |
| gtaagggtga | tagcgcgggt | ataacggttt | cggtttattt | taacgattcg | tagcgttagg | 2580 |
| ttattaagga | cgtaggtatt | attacggggg | ttaatgtgtt | gcgtattatt | aacgagttta | 2640 |
| cggcgcggtt | tatcgtttac | ggtttggata | agaagggttg | cgcgggcggc | gagaagaacg | 2700 |
| tggtttattt | tgatttgggc | ggtgtatttt | tcgacgtgtt | tattttgatt | atcgaggatg | 2760 |
| gtattttcga | ggtgaagttt | acggtcggcg | atatttattt | ggcggtgag | gatttcgata | 2820 |
| atcgtatggg | gagttatttt | gcggaggagt | ttaagcgtaa | gtataagaag | gatattgggt | 2880 |
| ttaataagcg | cgtcgtgagg | cggttgcgta | tcgtttgcga | gcgcgttaag | cgtattttga | 2940 |
| gttcgtttac | gtaggcgagt | atcgagatcg | attcgtttta | cgagggcgtg | gattttttata | 3000 |
| cgtttattac | gcgcgttcgt | ttcgaggagt | ttaatgtcga | tttttttcgc | gggatttttg | 3060 |
| agtcggtgga | gaaggcgttg | cgcgacgtta | agttggataa | gggttagatt | taggagatcg | 3120 |
| tggttggtgg | cggttttatt | cgtattttta | agatttagaa | ggtgtttag | gattttttta | 3180 |
| acggtaaagga | gttgaataag | agtattaatt | tcgacgagcg | ggtggtttat | ggcgtcgcgg | 3240 |
| tgtaggcggg | tattttttatc | ggcgataaat | tagagaaatg | gtaggatttg | ttgttattcg | 3300 |
| acgtgatttc | gttgctcgtt | ggtatcgaga | tagttggcgg | tgttatgatt | ttatttatta | 3360 |
| agaggaatat | tacgattttt | attaagtaga | cgtagatttt | tattatttat | tcggataatt | 3420 |
| agagtagcgt | attggtgtag | gtatacgagg | gcgaacgggt | tatgattaag | gataataatt | 3480 |
| tggtgggttaa | gttcgatttg | atcgggattt | tttttgcggt | tcgcgggggt | ttttaaatcg | 3540 |
| aggttatttt | cgatattgac | gttaatggta | tttttaacgt | tatcgtcgtc | gataagagta | 3600 |
| tcggtaaagga | aaataaaaatt | attattatta | atgataaagg | tcgtttgagt | aaggacgata | 3660 |
| ttgatccgat | ggtgtaggag | gcggagcggg | ataaatcggg | agatgaggcg | aatcgcgacg | 3720 |
| gagtcgcggg | taaaaacgtt | ttggagtttt | atatttataa | tattaagtag | acgggtggaag | 3780 |
| acgagaaatt | gaggggtaag | attagcgagt | aggataaaaa | taagattttc | gataagtg | 3838 |

<210> 21

<211> 3838

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 21

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| tttatogttt | gtttgatgtt | gtaggtatag | gatttttaggg | cgttttttggg | cgcgattcgg | 120 |
| tcgcgattcg | ttttattttt | cgatttgtat | cgttttcgttt | tttgtattat | tcggttaatg | 180 |
| tcgttttttg | tttagacgatt | tttgttattg | gtgatgggtga | ttttgttttt | tttatcgggtg | 240 |
| tttttgcggg | cggcggtaac | gttaaggatg | ttattggcgt | taatgtcgaa | ggtaatttcg | 300 |
| atttggggga | tttcgcgagg | cgtaggggga | atttcggtta | ggtcgaattt | gtttagtagg | 360 |
| ttattgtttt | tggttatggg | tcgttcgttt | tcgtataatt | gtatttagtac | gttgttttgg | 420 |
| ttgttcgagt | aggtgggtgaa | ggtttgcgtt | tggttgggtg | ggatcgtggg | gtttttttttg | 480 |
| atgagtgggg | ttatgataatc | gttagttgtt | tcgatgttta | gcgataacgg | ggttacgtcg | 540 |
| agtagtagta | ggttttgtat | attttttgat | ttgtcgtcga | tgaggatggg | cgtttgtatc | 600 |
| gcggcggtat | aggttatcgt | ttcgtcgggg | ttgatgtttt | tgtttagttt | tttgcgttg | 660 |
| aagaaatttt | gtagtagttt | ttggattttg | gggatacag | tgaggtcgtt | tatttagtacg | 720 |
| atttttttga | tttggttttt | gtttagtttg | gcgttcgcga | gcgttttttt | tatcggtttt | 780 |
| agggtttcgc | gaaagagggtc | ggtatttagt | ttttcgaagc | gggcgcgcgt | gatggacgta | 840 |
| tagaagttta | cgttttcgta | gagcagagtcg | atttcgatgt | tcgtttgcgt | ggacgagttt | 900 |
| agggtgcgtt | tggcgcgttc | gtaagcgggtg | cgtagtcgtt | ttacggcgcg | tttgttgggt | 960 |
| ttaatgtttt | ttttgtgttt | gcgtttgaat | tttttcgtta | ggtggtttat | tatgcggttg | 1020 |

22/93

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tcgaagtttt | tatcgtttag | gtgggtgctg | tcggctcggtg | attttatttc | gaagatgtta | 1080 |
| ttttcgatgg | ttaggatgga | tacgtcgaaa | gtgttatcgt | ttaggttaaa | gatgagtacg | 1140 |
| tttttttcgt | cgttcgcgta | gttttttttg | tttaggtcgt | aggcgatggt | cgtcgctcgtg | 1200 |
| ggttcgttga | tgatgcgtag | tatattgagt | ttcgtgatgg | tgtttgctgt | tttggtggtt | 1260 |
| tggcgttgcg | agtcgttgaa | ataggtcggg | atcgttatga | tcgcgttggtg | tattttgttt | 1320 |
| tttaggtagg | ttttcgcgat | tttttttatt | ttcgtgagga | ttatggagga | tatttttttt | 1380 |
| gggaagaagg | ttttggtttt | ttttttgtat | tttatttgta | ttttgggttt | gttttttttcg | 1440 |
| tttattattc | ggaacggtta | gtgttttata | ttcgattgta | ttgtgggtatt | ttcgaatttt | 1500 |
| cgtttaatta | gttttttggc | gtcgaagatg | gtgttggtgg | ggtttatggg | tatttggttt | 1560 |
| ttggcggcgt | cgctcgatgag | gcgttcgggtg | ttcgtgaagg | ttacgtagtt | gggggtgggtg | 1620 |
| cgattgtttt | ggctcgttggc | gatgattttt | attttggttat | gttggaagat | ttcgacgtac | 1680 |
| gaataggtgg | tgtttaggtc | gatgtcgata | gtcgggttac | gggtagatat | tttgattgaa | 1740 |
| aggcgagcga | cgttaggacg | ggaaaattag | ggagatgaat | ttcgcggagt | taattaacgg | 1800 |
| ttatttcgaa | ttaagtatta | cgggtattat | tagtaattta | gttttttcgcg | tttagttttc | 1860 |
| ggtttttata | gtcgtttttg | ggaattttta | gatttaattc | gttttcggga | tcgtttttat | 1920 |
| aaattttttt | agttttatta | taggtttggt | taggtcggag | tgattgggtc | gtgatttaatt | 1980 |
| agattttaag | ttggacgagg | ggcgggattt | cgtttttcgt | taggagatag | agggcggtc | 2040 |
| gttatgtaaa | tgaggttttt | ttttgatttt | cggctcgttag | gtcgtggtgt | ttcgcgcgtt | 2100 |
| ttttgttggt | ggttggcgtt | aggcgcgcgt | tttagagtt | agggtgacgc | gttttttcgc | 2160 |
| ggtttttggt | ttagtcgacg | tgtatcggat | tggtagggtg | cgcggttaatt | gagtagtgcg | 2220 |
| gattgaggcg | cggtacgggg | aggaggcgtg | gaaggggatt | tcggtgagga | gagttattgg | 2280 |
| gagagtctgt | ttaatttttg | aggttttaaa | tgtagtttat | tgtaggggtg | tcgattttatt | 2340 |
| gagtacgtag | gggcggagga | atttattttg | agttggttgt | atcgaagaaa | taaagttcga | 2400 |
| gtagtttggt | tttttcggcg | tcgtttaagg | ggagggaata | gggaattggg | gtgggtgggg | 2460 |
| tgggggggtga | gggcggattt | tttggacggg | gattaaagaa | aagaaaaagt | ttgaatcggc | 2520 |
| ggctcggttt | ttgggatttt | atggtgggtg | ttttattcgc | ttttagtggg | tgtgagcgtt | 2580 |
| cgattaaaa | tgtttggttg | gggtcggcg | tagtggttaa | cgtttgtaatt | tttagttatt | 2640 |
| gggaggtcga | ggcggtcgga | ttacgacgtt | aagatatoga | gattattttg | gttaatatgg | 2700 |
| tgaaagtctg | tttttattaa | agatataaaa | attagttggg | cgtggtggcg | cgtgtttgta | 2760 |
| gttttagtta | ttcgggaggt | tgaggtagga | gaatcgtttg | aattcgggag | gtggagggtg | 2820 |
| tagtgagtcg | agattacgtt | attatatttt | agtttgggcg | attgagcgag | atttcgtttt | 2880 |
| aaaaaaaaata | aaaaaaaaatt | ttattgtttg | gcgggcggag | agaatttgag | tttagggcga | 2940 |
| ggtcgatcgt | tttttcgcgt | cgctgagggg | cggttggcgg | gacggtagat | aggggtgtgg | 3000 |
| cggcgatttg | tttttcgagg | agtttgattt | taaatttttt | ttgtttttatt | tttttttttt | 3060 |
| tttggttggt | ttgtcgtttt | aaattttggg | ttcgtttttt | tgtttttttt | attgtttatt | 3120 |
| ttaggtcgtg | agtgttttat | ttattgtttt | gagtttttga | ttggaaaatt | tataatataa | 3180 |
| ttagttaaaa | tttatacgtt | gaaatattat | aaagtatttt | agtttcgggt | attttggtat | 3240 |
| atacgggggt | gtgatcgtga | tttagttatg | tttttgattt | cgtttaattg | aatggaatga | 3300 |
| tttttttttg | ttgtgttgag | gttaatatgt | gaggtataaa | tttttcgaga | aggtagatga | 3360 |
| aaaggagcgc | gattttattt | tttttgttta | ataggaatgt | gaggataggt | ttggaaaata | 3420 |
| ttttggtatt | aggtaataat | ttttagaagt | aggtttttat | ataaatgggt | ttttggacgg | 3480 |
| gtgtggagg | ttatgtttgt | agtttttagta | ttttgaaagg | tcgcggtagg | tggtattttt | 3540 |
| gttgtagtaa | gttcgaggtt | agtttggtta | atatggtgaa | atttcgtttt | tattaaaaat | 3600 |
| ataaaaatta | gtcggcgcgtg | gtggcgcgcg | tttgtagttt | tagttatttcg | agaggtagag | 3660 |
| gttgtagtta | gtcgagattg | cgatattgta | ttttagtttg | ggcgatagaa | cgagatttcg | 3720 |
| ttttaaaaaa | ataaaaataaa | tggttttttag | gaggaagtaa | agatagcgat | tatttttatat | 3780 |
| aatatgtgtg | gggagggttg | ggaagttttt | ttattaagtt | tgaataggta | tttattat | 3838 |

<210> 22

<211> 2893

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 22

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| ggagggggag | gattttttta | agaggtgaga | aggggtttgc | ggtttcgttt | ttagtcgagg | 120 |
| gcgggaggcg | tttcgttttt | atattttattc | gtttttttta | atttaggtcg | gggagggtat | 180 |
| ttatatgggt | ttaggtaagt | aataataaaa | taatacggta | ttttagttaa | tggtgcgtgt | 240 |
| acggcggggc | ttgtcggtta | aatttggaag | gggaaggagt | ttaggtagtc | gcggaggacg | 300 |

23/93

| | | | | | | |
|-------------|------------|-------------|-------------|-------------|-------------|------|
| gggttgaggg | ggatgcgagt | taggttttcg | cggtttacgg | tggttacgat | gcgttgccgg | 360 |
| tatagttttt | gtagcggctc | tacgcggcgt | tggcgtagcg | gggtttttag | tatgcggcgc | 420 |
| ggcgtcgtaa | cgtagtgttt | tagtagttcg | aagaggtagt | cgaagttttc | gcggttgtaa | 480 |
| tttaggtgaa | agcggtcggt | ttgaaagtgt | acgcggatgt | tcgtgggttt | cgaggttatt | 540 |
| tttacgttaa | gggcgaaaaa | gtagtttcgt | tggcggttgt | cgcgtattag | gaaggtgttt | 600 |
| acgggttcgg | cgcgtagtcg | ttcgtgcgtt | tcgtgtacgt | ttagggtttt | ttagtagaat | 660 |
| tcgtaggcgt | ttaggagcgc | gttggcgcgc | gtgatgcgtc | ggtaatcggc | gtgcgaacgg | 720 |
| aatgtgcgga | agtgcgtgtc | gtcgggggtc | ggggtcggga | tcgcggggta | cggtcgcggg | 780 |
| cgcgcggggg | tcgcggggca | ggaggaggaa | gaggaggaa | gttttggtcg | tcgtcgggtt | 840 |
| tttggtgttg | tggagattgt | attgtcgggt | gttatttgg | tgtgtgttat | tattttatag | 900 |
| aaggggttag | tcggaggggt | gggttatagc | gttcgggggt | gcgttcgggg | agagataaa | 960 |
| aggtgagttg | gggcgttcgc | gggtcgggta | ggtgtgcgtc | ggtcggataa | tttcggaggg | 1020 |
| cggcgttttc | ggcggattcg | gttttagggg | gcgagtaagg | agtatt aagt | tcgcgcggat | 1080 |
| tcgttttagtt | ttagtggata | tagttagaaa | atgggttttg | tatttcgcgg | agtttttttc | 1140 |
| ggcgggtggg | ggttcggtgg | aggcggagtt | cggtttttcg | gtagta tcga | gagggggggc | 1200 |
| tggagagtag | tcggttttgg | ttttagtcgt | tcggttttcg | ttcgtcgttt | cgcgttcgtc | 1260 |
| gtttgttggt | taggttgga | ttcgcgtttg | gtttgggcca | tttgggttag | ggtcggagaa | 1320 |
| aggttgtgtt | gcgggagttt | cgcgcgcggg | gggcggtttg | ggtggggtcg | gcgaggggta | 1380 |
| ggggtatcgc | ggtcgcgatt | ttattttgta | gttttcgagg | ttcgttcgat | ttttggttgt | 1440 |
| tttggaatttt | tttttttttt | ttttttcgtt | ttttcgttta | gggttcgggt | tattttggcg | 1500 |
| cggggcgcgg | gacgtcgcgg | gcgggacggc | ggggggtttc | ggggcgtttc | ggggcgggtt | 1560 |
| tcgcgtatgt | ttcgggggta | ggagtcgtgt | agttgttacg | gtcgta gttc | gttttggttcg | 1620 |
| gcgttcgttt | ttgcgttagt | tttttaaate | ggttcggagg | cggggt tggc | gacggcggga | 1680 |
| ggtttcgttt | tttgtcgggt | tcgttttttag | ttttattttt | ggtttt tttt | ttcgcgggtg | 1740 |
| cgttcggcga | ggatcgtttc | ggttttggtt | tttttttttt | tggatt tttt | cgcgggggtt | 1800 |
| tttggttcgtt | tgttcgtatt | tgtttttagta | ttcgtttttc | gaggggtttt | ggttttcgatt | 1860 |
| ttgcgttttt | cggttatttt | tcggattttt | ttttcggatt | tggcga tttc | gattttgttt | 1920 |
| cgttatttcg | ggtttttatt | tttgtcgtta | ggtttttttg | ggacgcgttt | tgatataatt | 1980 |
| tttttcgttt | tagttgtttt | tatatcgtc | gggggttagag | ttttgt tttt | tttttttttg | 2040 |
| tagttagatt | tttttaggag | gttatagaag | gtgttttttaa | ttttga gttt | gattttatttc | 2100 |
| gtagattttt | ttttagtttt | tgttttattc | gtcgtcgacg | ttttta gtcg | ttcgttttgt | 2160 |
| tgtttcgaag | tttcggtcgg | tcgcggtttt | tggtttttgt | tcgggt tttt | cgggaagcgg | 2220 |
| cggtttgatt | ataggtttta | gaggaaattt | tggcggcgcg | ggcgttttta | tttcggttta | 2280 |
| gtttttcgga | aattgggcgg | ggtcgggtaa | ggttttttgt | ggttttcgatt | gttttttttg | 2340 |
| cgtttttatt | attcggttgc | ggaagaaatt | gaggttgggg | aggggt tggg | atttgtaatg | 2400 |
| gtttgtagat | tgggagtttt | ggatttgga | ttcgtttttt | tcgttt ttat | tttggggaga | 2460 |
| ggtgtagttg | gacgatatta | aattggagtt | tagtgaaaaa | atgggtgtatt | tttagacgtg | 2520 |
| atgaattttt | aaatttggtt | tttttagttt | tttttttttc | gatttttttt | ttatagattt | 2580 |
| ttttttttta | ttgtttcgtt | aggtattttg | tttttaaaga | ttgttttttt | attatatata | 2640 |
| cggtcggggg | ttgggatggg | gggcggtcgg | tggtcggggg | tgtaatttgt | atacgtgttt | 2700 |
| gtgatttagt | gatttcgatt | gtcgtgcgag | gttatggagt | aggtgt ttgg | ttgtttcgtg | 2760 |
| tatttttgaa | tgaaggatat | tgaggagttt | tagtattata | aggggt tata | taaaaatttg | 2820 |
| gttaggttgg | gtatttggtt | attgggttta | tattgggata | tattgt tttt | tatagatagt | 2880 |
| ttttagacgg | ttt | | | | | 2893 |

<210> 23

<211> 2893

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 23

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| tgtttagttt | agtttaggtt | ttatgtggtt | ttttgtgatg | ttggggtttt | ttatatgttt | 120 |
| ttatttaaaa | atatacggag | tagtttaggt | tttattttat | ggttttcgtac | gataatcggg | 180 |
| attattaaat | tataaatacg | tgtgtaaatt | atagttttcga | ttatcgatcg | tttattattt | 240 |
| taagtttcgg | tcgtgtgtgt | ggtgggaagg | tagttttttg | agggtagatg | tttgacggag | 300 |
| tagtaggagg | gggaaattta | tgagggaagg | gtcgggggag | aggagggtta | ggaaattagg | 360 |
| tttggggatt | tattacgttt | gagaatgtat | tattttttta | ttgggtttta | atttgatgtc | 420 |
| gttttagttg | attttttttt | aaaatgaaga | cggggaaggc | gagattttag | tttagagttt | 480 |

24/93

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttaatttgta | agttattgta | aatttttagtt | tttttttagt | tttagttttt | ttcgtagtcg | 540 |
| ggtagtgagg | gcgtagggag | ggtagtcgag | gttattaggg | attttggttcg | gtttcgttta | 600 |
| gttttcgagg | aattgggtcg | gggtggaggc | gttcgcgtcg | ttaggggttt | ttttgaagtt | 660 |
| tgtggttagg | tcgtcgtttt | tcgggaagtt | cgagttaaga | ttagagatcg | cggtcggtcg | 720 |
| gggtttcggg | atagtagggc | gggcgattga | ggcgctcgac | ggcgggtgga | gtaggggtta | 780 |
| ggaggggggt | tacgggtggg | gttaggttta | gggttgggga | tattttttgt | ggtttttttag | 840 |
| ggggatttgg | ttgtagggga | ggagaggata | gggttttgtt | ttcggcgggt | gtggagatag | 900 |
| ttggggcgga | ggaggggtgt | ttagggcgcg | ttttaagagg | gtttggcggt | agaaagtgga | 960 |
| attcgaggta | gcggggtaaa | atcggggtcg | ttaagttcga | aggaggggtt | cgagaagtgg | 1020 |
| tcggaaggcg | tagggtcggg | gttagagttt | ttcgagaggc | gggtgttggg | gtaggtgcga | 1080 |
| ataggcgggt | agagggtttc | gcgggagggt | ttagaagaga | gggaaatagg | gtcgaagcgg | 1140 |
| ttttcgtcgg | acgttatcgc | ggaaagagaa | attaaaagtg | gagttggggg | cggggtcgg | 1200 |
| agggggcggg | gtttttcgtc | gtcgttagtt | tcgttttcga | gtcggtttaa | aagattggcg | 1260 |
| taggggcggg | cgtcgaatag | agcagattgc | ggtcgtggta | gttgtagcgt | ttttggtttc | 1320 |
| ggagtatgcg | cgagagtcgt | ttcggagcgt | ttcggagttt | ttcgtcgttt | cgttcgcggc | 1380 |
| gtttcgcgtt | tcgtcgttag | gtgagtcggg | ttttggcgga | ggagggcgga | gggaggagg | 1440 |
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| aaggttaatg | agtttttagaa | ttagtaagga | gttttagtga | atltgaaatag | agtgattaaa | 600 |
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| gacgggtgtt | tattatgttg | gttaggttgg | ttttgaattt | ttgattttaa | gtgattttatt | 840 |
| cgttttaatt | ttttaaagtg | ttgggattat | aggcgtgagt | tatcgcgttc | ggttaggatt | 900 |
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26/93

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| tagttgagcg | ttcgggttta | gggaaggata | gcgatttttg | gttttttggt | tgttacgggg | 3120 |
| gtgggttttt | ttaaatatatt | cggcggcgtt | ttttcgtatg | gatttttttg | gtcgtattttt | 3180 |
| tgccgggggt | ggcgtgttag | gagcgattgt | gggttttcgg | aaattagatt | tttcggtttt | 3240 |
| aagatatatc | gatggcgtgg | ggacgtcgtg | ttcgttttcg | tgtttacggg | cggggatcgg | 3300 |
| aggcgggttt | tttgattagg | ttttggaagg | tagcgagcgg | gagagtagcg | tttttttaag | 3360 |
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| attcgggttt | tttttttttt | tttttttttg | ttttaacgtt | ttcggtagat | tcggcgggtc | 3480 |
| gttcgggtta | tttgcgtcgg | ttgttaaggg | ggcgttttta | tttgccgcgt | cggaaagggt | 3540 |
| ttggtgattg | gtttcgggtt | ttttagttcg | gagagtgttt | ttgttatatt | ttgtagggtt | 3600 |
| gacgtttttg | ggttgggatt | cggaaaggatt | tcggtatttt | tatttttatt | gggattttta | 3660 |
| tttttaattt | cgttggagggt | tttttggttt | taaggaaat | ttattttttt | gtttgcgtat | 3720 |
| tcgttttcga | aatatgattt | atttgaaatg | tgatttatatt | tttaaaagaa | atttttaata | 3780 |
| attacgggaa | aatcggattt | aaaatttcga | taagtatttt | tttttgaaat | attattttat | 3840 |
| tgtattattg | ttcgaaagtt | tgaaagggtta | atggttatatt | ttagttgagg | tcgcggttat | 3900 |
| gggaagttgg | gcgaggaagg | gggaggggtg | ggagggaggc | gcgttttgta | aattttgttt | 3960 |
| ggtgtttttt | ttgtcgggtt | tgggaggaaa | cgggaattag | tttttaattt | tgggggtttgt | 4020 |
| agtcggggat | taatggtttt | tttaataaatt | tttttggttt | tgagtatata | atttttatgta | 4080 |
| gatgataagt | agatgagtcg | gggagggggg | tatttttttag | tttaataaaga | gttttggtta | 4140 |
| cgttgaggag | gtgtgttttc | aattatgttt | cgtttttttg | aaagagtttt | ttatagtgtg | 4200 |
| ggcggaggtta | attgaatttt | agttaaaatt | ttttataaag | tagttgaata | attttgtata | 4260 |
| aggatatttat | tttttttgga | tttttggttt | tttttataat | atgaagggtt | agattcgggt | 4320 |
| tttggttgag | ggattgggat | aaaggaaata | attagatttt | atgtgaagtt | tgtgtatagt | 4380 |
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| gttttaatat | ggttttttat | tttttgatgg | agaattttag | aggaagggtg | tatttatatt | 4500 |
| ttagtttaaa | taaaaaggta | tttattttta | aaattgacgg | agggcgggga | gggagtatga | 4560 |
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| ttcgtttttt | aggtttaagt | aatttttttg | ttttagtttt | tcgagaagtt | gggattatag | 4680 |
| gcgtttatta | ttacgttcgg | ttagtttttg | tatttttagt | agagacgggg | tttcgttttg | 4740 |
| ttggttaggt | tggttttcgaa | tttttggttt | taatcgattt | ttttgtttcg | gttttttaaa | 4800 |
| gtgtcgggtt | tataggcgtg | agttattttt | tttggtttta | atatttttat | atagtaagtt | 4860 |
| taatatttat | ttgatagtgg | gttgaaatga | atttttttagt | aatttttttt | ttatgtgttt | 4920 |
| ttttgttgtt | ttggtgtatg | ttgttttttt | tttttagaat | gttttaattt | tgatgggtgt | 4980 |
| atttatattt | attaaaagaa | ttttggtcgg | gcgcgggtgt | ttacgtttgt | aatttttagta | 5040 |
| ttttggggag | ttgaggcggg | tggattattt | gaggttagga | gtttaagatt | agtttggtta | 5100 |
| atatggtgaa | atatcgtttt | tattaaaaat | ataaaaaatt | gtcgggtgtg | gtggtgtatg | 5160 |
| tttgtaattt | tagttattag | ggagattgag | gtaggagaat | cgtttgaatt | cgggaggtgg | 5220 |
| agggtgtagt | gagtcgagac | gggtgtattg | tatttttagt | tgtttatatt | tttgatttta | 5280 |
| tttttttttg | ttttgttttt | tgattatttt | gtttaagtta | tattggattt | tttgtttaatt | 5340 |
| ttagaattta | ttagttttgt | ttttgtttta | gggtttttgt | atttggttgt | ttttttattt | 5400 |

28/93

| | | | | | | |
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| tttatgtttt | tttttttagat | agttgtaagg | tttattttttt | tatttttttta | aattttttatt | 5460 |
| taatgtcgtt | tttttagtga | gattttgttt | gttgggtttat | ttagaattga | ttttttttttt | 5520 |
| gtatattttt | ttttttttttt | tgtttttaggt | tttttttttaa | ttatgtttat | tattttaattt | 5580 |
| agttttatgtt | ttatttttttt | agttttatttt | tttttttaatt | ttgttttatg | tatttgtaatt | 5640 |
| tgtattgttt | atagttgtag | tttagtattt | tgaatatagt | tttttagtatg | tagtaggtat | 5700 |
| ttaataataat | tattgaatga | atggatggat | gaatgaatgg | atggatgaat | gaatgaatgt | 5760 |
| attagtatta | tggtttttaa | gttaagttgt | ttaggtatga | atttttattt | tgttattatt | 5820 |
| tgttatatat | gtgatttttg | gtaatttatt | tagttttttt | tgagatgat | tatgggtttt | 5880 |
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<210> 26

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 26

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| ttgttttttt | ttttttttttt | attttgtatt | ttggagttaa | ttatagtgtt | tggtgtttttt | 120 |
| ttgtttgtgt | tataagttttt | tattatttag | tttttattta | taagtgagaa | tatttagtatt | 180 |
| ttggattttt | gtttttgtat | tagtttggtt | aggataatag | tttttagttt | tatttatgtt | 240 |
| tttataaaag | atatgatttta | gttttttttta | atgggttgat | taaatgaagt | tttaaagata | 300 |
| taatataaat | attaatttttt | tttttattat | aaaaattttt | tggtgaattt | gatttatattt | 360 |
| aaattaacga | gttttggtttt | atgaaagatt | ttttggataa | atttgatagt | tgatggaata | 420 |
| ggagaagttg | tttggttatgt | ttaaagttaa | taagagatta | atatttagaa | taaatggaga | 480 |
| tttgtaaat | aatagaaagt | aggtagtaaa | gttaaagaaa | atagtttaag | gtatagttaa | 540 |
| taaaaggaac | gtgattatgt | tttttgtagg | gatatgggtg | gagttggaag | tcggttagttt | 600 |
| tagtaaat | atataggaat | agaaaattag | cgagatcgta | tggtttttatt | tataagtggg | 660 |
| agttgaataa | tgagaatata | tggttatatg | gcggcgatta | atataattg | gtgtttgttg | 720 |
| agcgggggtg | tggggaggga | gagtatttag | aagaatagtt | aagggatatt | gggttttaata | 780 |
| tttggtgat | gggatgattt | gtatagtaaa | ttattatggc | gtatatattt | atgtaataaa | 840 |
| tttgatatatt | ttttatagtt | attttagaaa | tttaataaaa | agttggacgg | ttaggcgtgg | 900 |
| tggtttacgt | ttgtaatttt | agtattttgg | gaagtcgagg | cgtgtagatt | atttaagggtt | 960 |
| aggagttcga | gatttagttcg | gttaatatgg | tgaaatttcg | tttttattaa | aaatataaaa | 1020 |
| attagttaga | tggtgtacgt | atttataaatt | ttatttatcc | gggaggttga | agtagaattg | 1080 |
| tttgaaattcg | agagggcgag | gttgtagtga | gtcgtcgaga | tcggtttatt | gtatttttagt | 1140 |
| ttgggttata | gcgtgagatt | acgttataaaa | ataaaaataaa | ataatataaa | ataaaaataaa | 1200 |
| ataaaaataaa | ataaaaataaa | ataaaaataaa | ataaaaataaa | ataaaaaaat | aaaaataaaat | 1260 |
| aaaaataaaat | aaagtaattt | ttttttttttt | aagcggtttt | tattttttttt | ttttgtttttg | 1320 |
| tgaagcgggt | tgtagaattt | cggtatcgta | gcgtttttag | ggaatttttt | ttcgcgatgt | 1380 |
| ttcggcgcggt | tagttcggtt | cgtatatattc | gttcggtttt | ttttttttgtt | gtttgttttat | 1440 |
| tttttaggtt | tcgttgggga | tttgggaaag | agggaaaggt | tttttcggtt | agttgcgcgg | 1500 |
| cgatttcggg | gatttttaggg | cgttttttttg | cggtcgacgt | tcgggggtgta | gcggtcgtcg | 1560 |
| gggttggggt | cggcgggagt | tcgcgggatt | ttttagaaga | gcggtcggcg | tcgtgattta | 1620 |
| gtattggggc | ggagcggggc | gggattattt | ttataaggtt | cggaggtcgc | gaggttttcg | 1680 |
| ttggagtttt | gtcgtcgtag | ttttcgttat | tagtgagtac | gcgcggttcg | cgttttcggg | 1740 |
| gatgggggtt | agagtttttt | gtatggggtt | aattcgtagt | attaggttcg | ggtttttcgg | 1800 |
| agggtttttc | gtttatttcg | agattcggga | cgggggttta | ggggatttag | gacgttttta | 1860 |
| gtgtcgtttag | cgggtttttag | ggggttcgga | gcgttttcgg | gagggatggg | atttcggggg | 1920 |
| cggggagggg | gggtagattg | cggttatcgc | gttttggtat | tttttttcgg | gttttagtaa | 1980 |
| attttttttt | gttcgttgta | gtgtcgtttt | atatcgtggt | ttatttttta | gttcgaggta | 2040 |
| ggagtatgtg | tttggttaggg | aaggagggta | gggttgggg | ttgtagttta | tagtttttcg | 2100 |
| tttatcggga | gagattcgaa | ttttttttatt | ttttcgtcgt | gtggttttta | tttcgggttt | 2160 |
| ttttttttgtt | tttcgtttttt | ttcgttatgt | ttgttttttcg | tttttagtgtt | gtgtgaaatt | 2220 |
| ttcggaggaa | tttgttttttt | tggtttttttt | ttgtattttt | gattttttttt | cgggttgttg | 2280 |
| cgaggcggag | tcggtttcggt | ttttatatatt | cgtatttttt | tttttttcgta | ggtcgttgcg | 2340 |
| cggttttcgc | tatgttggtg | gtagattagg | gttagagttg | gaaggaggag | gtggtgatcg | 2400 |
| tgagacgtg | gtaggagggt | ttatttaaaag | tttttttcggt | aagtgattat | gttcgggtaa | 2460 |
| ggggaggggg | tggtgggttt | taggggggtt | tgattaggtat | t | | 2501 |

29/93

<210> 27
 <211> 2501
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> chemically treated genomic DNA (Homo sapiens)

<400> 27

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| tacgtaggag | gttttgagt | agtTTTTTTT | ttacgttttt | acggttatta | tttttttttt | 120 |
| ttagttttgg | ttttgatttg | ttagtagtat | gcgtaggggtc | gcgtagcggt | ttgcggggag | 180 |
| ggagaagtac | gagatgtggg | gatcgggtcg | atttcgtttc | gtagtaattc | ggggaggggt | 240 |
| taggagtgt | gggagggaa | agggaaatag | gttttttcga | agattttata | taataattggg | 300 |
| gcggggagta | ggtatggcgg | gagagggcgg | gaataggaag | gaggttcggg | gtaaaagtta | 360 |
| tacgacggag | ggataagggg | gttcggattt | tttcgggtgg | gcgaggggtt | gtgggttgta | 420 |
| gttttagttt | ttgttttttt | ttttgttag | atatatgttt | ttatttcgaa | ttgggaaata | 480 |
| gattacggtg | tagggcggta | ttgtagcgaa | taaagaaaag | tttgttgagg | ttcggggggag | 540 |
| gatgttaagg | cgcggtgagc | gtagtttggt | tttttttttc | gttttcgggg | ttttattttt | 600 |
| tttcgagggc | tttcgggttt | tttgaaagtc | gttaacggta | ttggggacgt | tttgggtttt | 660 |
| ttaggttttc | gtttcgggtt | tcgaggtggg | cgaggagttt | tgctcgggag | tcgggtttga | 720 |
| tggtgcgggt | tggttttatg | ttgggagttt | tgagttttat | tttcggggac | gcgggtcgcg | 780 |
| cgtattttat | ggtggcgaag | attgcggcgg | cgaaatttta | gcgaaggttt | cgcggttttc | 840 |
| gagttttata | aggggtggtt | cgtttcgttt | cgttttagtg | ttgagttacg | gcgtcggtcg | 900 |
| tttttttgga | gggtttcgcg | gatttttcgt | ggtttttagt | tcggcggtcg | ttgtatttcg | 960 |
| ggcgtcggtc | gtagaggggc | gttttgagtc | tttcggagtc | gtcgcgtagt | tggtcgggga | 1020 |
| agtttttttt | tttttttttag | gttttttagcg | gggttttaggg | agtaaataga | tagtaggaag | 1080 |
| aggatcgtag | cgaagtgtgc | gtagcgaatt | ggcgcgtcgg | gatatcgcg | ggggaaattt | 1140 |
| tttaagatcg | ttgcgatttc | ggagtttgta | tattcgtttt | atagggtagg | ggagaggggt | 1200 |
| ggaggtcgtt | tagaggaaag | gaaattgttt | tattttattt | tattttattt | tattttttta | 1260 |
| ttttatttta | ttttatttta | ttttatttta | ttttatttta | ttttatttta | ttttgtgtta | 1320 |
| ttttatttta | ttttatgacg | tagttttacg | ttgtggttta | ggttgagtg | tagtggcgcg | 1380 |
| atttcggcgg | tttattgtaa | ttttcgtttt | tcgggtttta | gtaattttgt | tttagttttt | 1440 |
| cgagtaggtg | gaattatagg | tcggtgttat | atttggttga | tttttgtatt | tttagtagag | 1500 |
| acgggggttt | attatgttgg | tcgggttgg | ttcgaatttt | tgattttagg | tgatttgtac | 1560 |
| gtttcgggtt | tttaaagtgt | tgggattata | ggcgtgagtt | attacgtttg | gtcgtttaat | 1620 |
| ttttatttga | agttttgggg | tatatgtaga | ggatgtgtag | gtttgttata | taggtgtgtg | 1680 |
| cgttatgatg | gtttgttgta | tagattattt | tattatttag | gtattaagtt | tagtattttt | 1740 |
| tagttatttt | ttttggtatt | tttttttttt | agtatttcgt | ttaataggta | ttagtgtgtg | 1800 |
| ttgatcgtcg | ttatgtgatt | atgtgttttt | attgttttag | ttttatttat | aagtgtgatt | 1860 |
| atgcgggttt | gttggttttt | tgttttttgt | tgagtttggt | gaggttaacg | gttttttagt | 1920 |
| ttatttatgt | ttttgtaaa | gatatgatta | cgtttttttt | agtggttgtg | ttttagggtta | 1980 |
| tttttttttg | ttttgttggt | tattttttgt | tgattttag | atttttattt | attttagata | 2040 |
| ttgatttttt | gttggtttta | gatatgatag | atagtttttt | ttattttatt | aattgttaag | 2100 |
| tttggtttaag | gagtttttta | tgaaataaaa | ttcgttaatt | taagtgtaat | ttaaatttagt | 2160 |
| aagggtattt | tgtggtgggg | aagaggttgg | tgtttatgtt | gtatttttta | aattttattt | 2220 |
| aatgtagtta | ttaaaaagaa | ttagattatg | ttttttgtgg | gaatatggat | ggagtttagag | 2280 |
| gttattattt | ttagtaaaat | aatgtaggaa | tagaaattta | aatattggat | gtttttattt | 2340 |
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| gttgatttta | gggtgttaga | tgggaggaag | gagaggagta | gaaaagagaa | ttattgggta | 2460 |
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 <213> Artificial Sequence

<220>
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<400> 28

30/93

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| tagtttaata | atagtttaata | gtatatggga | tagcgtaaat | aaatltttgcg | tttttgttgt | 120 |
| ttttttgggt | ttcggagatt | ttaatltttt | tttttagattg | taaatltttt | tgttttttaag | 180 |
| tttcgggtttt | aatattagtt | cggtagagga | atlttagttta | atgaggtacg | tttttttttt | 240 |
| gttattttttt | atltttattaa | tttgtttcgt | ggtaaacgta | ggattgattt | tttaaaatta | 300 |
| ttttattaat | tagtttataat | atlttattatt | tatttgtttt | attagaatgt | aggttttcgg | 360 |
| aaggtaggga | tttaaaaaaa | tttgttttgt | tttatgtgat | ttttttatat | taagtatcgt | 420 |
| gttcgggtata | agttgggatt | tttagtatata | tttcgggacg | gaagaatcgt | gttttttttag | 480 |
| aatlttagtta | gagggtagtt | tagtaattgtg | ttataggttg | ggcgttcgcg | tttcggggcgg | 540 |
| acgtatttgt | ttttcggtcg | gcgtgggtgt | ggggcgagtg | ggtgtgtgcg | gggtgtgctg | 600 |
| ggtagagcgc | gttagcgagt | tcggagcgcg | gagttgggag | gagtagcgag | cgtcgcgtag | 660 |
| aattcgtagc | gtcggttttg | tagggtagtt | cggaggtggg | tgggtcgcgt | cgttagttcg | 720 |
| ttttaggggt | ttttatttgt | cgtttgtcgg | tcgtttttcg | tttaaaaggc | ggtaaggagt | 780 |
| cgagagggtg | tttcggagtg | tgaggaggat | agtcggatcg | agttaacgtc | ggggattttg | 840 |
| tttttttcgc | ggaggggatt | cggtaattcg | tagcggtagg | gtttggggtc | ggcgtttggg | 900 |
| agggattttgc | gtttttttatt | tatttttttag | ttgtgttttc | gtcgtcgttt | cggttagttt | 960 |
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| tttgttttttt | tagttagggt | gcgggtgggt | ttgttcgggt | agtgtttcga | gtaattggga | 1140 |
| aggttaaggc | ggagggaaat | ttgggtttcg | ggagaagtgc | gatcgtagtc | gggaggtttt | 1200 |
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| tggtttttggg | gattgtttcg | ttcggggaaag | gggagaggggt | ggttacgggtg | ttaggagagg | 1440 |
| cgcgggagtc | gagaggtggc | gcgggggtgt | tatcgttgtc | gtaggttgga | gagagattgt | 1500 |
| tttttagtgag | gcgcgtatcg | tttgggcgag | ggtttttattt | tttcgcggcg | tttttgagg | 1560 |
| tgggaaagt | gggtgggtat | gtgtgtagag | aaaggggagg | cggggagggt | agttattttc | 1620 |
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| gttttaataa | agggtgtttt | tttttatttc | gcgaggagg | gtagtttcgg | agattcgggt | 1800 |
| tttagcgagc | ggggtttttag | cgtcggggag | gtttattttt | ttttgggggt | gttattttat | 1860 |
| tattattatt | gtttttttttt | ttttttttaa | aggattggag | attgatgtat | gaggggggtta | 1920 |
| cggagggcgta | ggagcgggtg | tgatggtttg | ggaagcggag | ttgaagtgtt | ttgggttttg | 1980 |
| gtgagggcgtg | atagttttatt | atgatcgtgt | ttaggtagga | aaacgtggat | gattattacg | 2040 |
| atatcggcga | ggaattttgtt | aggtaaagg | ggtattagaa | gcgtattttt | ttggattgtg | 2100 |
| gaaatgtata | acgatgggggt | tattgggtgg | taaataaatg | tagtttgaat | taggcgtttt | 2160 |
| tttcggttttt | tttgagatg | cgtaaattat | agagaaaaga | gttatttaatt | tagcggtaaa | 2220 |
| tcgttttgatt | taagggtttg | ggggtggagg | agaggtagta | gttttaggggt | agattatgat | 2280 |
| gtatagtata | ttgatttagt | tttttgata | aaattagatt | taattgttcg | tgtaattttt | 2340 |
| tgtaggtttt | tggtttttttg | tgataatagg | ataaatatta | agattataat | tgtaattgga | 2400 |
| gttaggtttt | atgtgtgatt | taaacggagg | gtataaatta | attaataggt | tttaaaaatt | 2460 |
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<211> 2501

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<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 29

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| aaatttgatt | ttgtttagg | gattggatta | atatattgtg | tattataatt | tagttttgaa | 240 |
| ttgttgtttt | ttttttattt | ttagggtttt | ggattaggcg | gtttatcgtt | gggttagtaa | 300 |
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| ttttttttcg | cggggtggag | aggagtattt | tttgtaaag | ttgggcgggt | agggacgttt | 780 |
| tcgatttttt | agtttcgcgc | gcgcgtgggg | tcgggtatta | cgggtatttcg | aggtcggcgt | 840 |
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| gttttttttt | tttttgtata | tatgtttatt | tagttttttt | attttttagg | acgtcgcgga | 960 |
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| tatttttttt | tttttttcga | gcgaggtagt | tttttagagt | atatttttgg | cgtttttttt | 1140 |
| ttcgtttatt | ggtcgttcgc | gcgtgcggtc | gttcggggga | gtaaggagg | gaaggagcgc | 1200 |
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| gggtcggcgt | tatttggttt | tattcgggtt | gcggggttgg | ggaagttttt | cggttgcgat | 1320 |
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| atattttttc | gagttgtttt | gttaggtcgg | cgttgccggg | tttgcccggc | gttcgttgtt | 1860 |
| tttttttagt | tcgcgtttcg | ggttcgttgg | cgcgttttat | cgcgtatatt | tcgtatata | 1920 |
| ttattcgttt | tatatttaacg | tcggtcgggg | agttagtgcg | ttcgttcgga | acgcgggcgt | 1980 |
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| gtaatttgaa | gaaagggttg | aggttttcga | gatttaagaa | agtaatagag | acgtagagtt | 2400 |
| tatttgcgtt | atatttatatg | ttattggtta | ttgttgagtt | gaaatgtagt | tagtttttaa | 2460 |
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<220>

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| aagtgatttg | attaaggtag | gtgtatagtt | atatttgta | attgggaata | aatttttaggt | 180 |
| tttttgattt | tttggtttta | ttttattttt | tttttatatt | ttagaaataa | agtttttatg | 240 |
| tggttttttt | tatagtata | tggttggaat | gtattagtt | gtaatttagg | aagggaataa | 300 |
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| gagaaagtag | gagagtttgt | atttttattt | tttttttttt | tttttttttt | tttgagagacg | 900 |
| gagttttatt | ttattattta | ggtttagagt | tagtggtagt | atatttagtt | attgtaagtt | 960 |
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| aattaaattg | tttttatacg | gtgggtagag | gggaattgat | ttaggttttg | aataagagag | 1440 |
| aatatttttaa | ttgaaaagtt | tttggaattc | gttgaatttt | aagatattgt | gtggattagt | 1500 |
| ttaggatagg | gagtgagaag | aaattaatta | aaaggttaatt | tcgttatttt | ttagttggaa | 1560 |
| aaaagattag | attatatttg | tgttttttata | attaagtagt | tgttggaaaa | aaacgtttta | 1620 |
| gatgtttttt | atgagaaaat | tgttgtttga | agtttagtag | aagttattta | tttgatattt | 1680 |
| atatttttagg | taagggttttt | cgttggagaa | aatatcggtta | ttttggataa | aattgaaatg | 1740 |
| tgaaaagaaa | gggaagagag | ggttttttatt | atgtaagatg | tttattttaa | gtggattttgg | 1800 |
| tttggaagt | tttttaaaat | tttttatatg | attgtggaat | aagttatgtg | gggcgcgggg | 1860 |
| ataagcgaat | tttttaaaat | ttattacgta | tgttttttatt | taatttggtat | tttttagagt | 1920 |
| gttttttaggg | tatttttggtt | aggatttagt | tagttgttgg | ttatatattat | gttttttagt | 1980 |
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<213> Artificial Sequence

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<223> chemically treated genomic DNA (Homo sapiens)

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| cgttttgttt | ttttaagtag | cgttgtagtt | ttggttgtag | cgtgggggtc | gggcggggta | 180 |
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34/93

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| gtagttagtag | tagtagtggt | gagaggttgt | ggtttttaagg | gtttatggtt | ggttggggat | 1140 |
| gttgagttag | ggtaggtgtt | gggtgtggtt | gggttgggtt | gggttggagt | gggttggagt | 1200 |
| ttgaattgat | ttttgtaagt | ttataggtgt | tttgtagttt | tgatgttatt | gagaggggtt | 1260 |
| gtgtggttgt | agttaggtga | gttttggagg | tattgttttt | tgtattgttg | attggttgag | 1320 |
| ggtttatttg | ttggttatag | tttaattagta | gtgtggattt | tttttttaggg | tggagttgat | 1380 |
| ggtttgttta | tttggttttg | tatagatgtg | gtgatttttt | agtttggagt | tgttaggggt | 1440 |
| taggtgggtt | atgggatttg | tatggttttg | attttattgg | gtttgaattt | tagttttgtt | 1500 |
| gggtggtttat | taagatttgg | gattagaaag | ggtttttata | tttggttgag | tttttttgtt | 1560 |
| ttttgggatt | ttttgtttgt | ttgttttggg | gatgggggtt | tattttttta | tttaagtttg | 1620 |
| agtgtagtgg | tgtgattata | gtttattgta | gttttgaatt | tttggtttta | agtgggtttt | 1680 |
| tggtttttagt | tttttttagta | gttgggagta | taggtgtata | ttattatgtt | aggtttaatt | 1740 |
| tttttttttt | tgtttttttg | tagagagata | agttgggggt | gataggggtg | gtgggggtgt | 1800 |
| tgtgtttttt | tgtattgttt | agtttgggtt | tgaatttttg | ggttgaagtgt | atttttttgt | 1860 |
| tttggttttt | taaagtgtta | ggatttttagg | tgtgagttat | gagttattga | gttagtagtt | 1920 |
| taattttttg | tttgtttgtt | ttgtttgtat | tttttgagat | ggagttttgt | tttgttttgt | 1980 |
| ttaggttggg | gtgtagtgg | atgatttttg | tttattgtaa | tttttgtttg | ttgggtttta | 2040 |
| gagatttttt | tgttttagtt | tattgagtag | ttgggattat | aggtgtgtgt | tatttatatt | 2100 |
| gttaattttg | tatttttagt | atagatgggg | ttttattatg | ttggttaggt | tggtttggaa | 2160 |
| tttttgattt | taggtgattt | atttttttta | gttttttgaa | gtgttggatt | ataggtgtga | 2220 |
| gttattgtat | tttgttttga | gtggtttaat | tttttaaaaa | attttttttag | agaggggatt | 2280 |
| ttattatggt | gttgagggtg | attttaaaat | tttgaaattt | ggtgattttt | ttgttttagt | 2340 |
| tttttttattg | agttttttat | tttttaattt | gtttttttta | attgtagagt | tttatgggtt | 2400 |
| agttagtttag | taaattgatt | tttttaggtt | ggattatttt | ttaaagtttt | agttttttta | 2460 |
| ttttttttaat | gggaataatg | attagaaatg | tttttttatg | ttgttgtggg | atttttatat | 2520 |
| aattaaaaatg | ataaatgttt | tttgagttat | aaatgttttg | tatagaagtgt | aggggtaaaa | 2580 |
| atagtaataa | tagggttagg | tatggtgggt | tatgtttgta | attttagtat | tttgggaggt | 2640 |
| tgaggtgggt | agattatgag | gttaggagat | tgagattatt | ttggttaatg | tagtgaaatt | 2700 |
| ttgtttttat | taaaaatata | aaaaattagt | taggtgtggt | ggtgggtgtt | tgtagtttta | 2760 |
| gttattttggg | aggttgagg | aggagaatgg | tatgaatttg | ggaggtggag | tttgtagtga | 2820 |
| gttgagattg | tgttattgta | ttttagtttg | gggtgatagag | taagattttg | tttttaaaaa | 2880 |
| aaaaaaaaaaaa | aaaaaatagt | aataataggt | gttggatatt | gaagattatt | gtgttagttt | 2940 |
| ttgtgttaag | tatttgatat | tgattagttt | tttttttttt | gagatggagt | tttgttttgt | 3000 |
| tgttttaggt | ggagtgtaat | ggtgtgtttt | tgggtttatt | taatttttgt | tttttgggtt | 3060 |
| taagtgggtt | ttttttatta | gttttttgag | tagttgggat | tataggtatg | tgttattatg | 3120 |
| attgggttaatt | ttttgtattt | ttagtagaga | taggggtttt | ttatgttggt | taggttggtt | 3180 |
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<210> 36

<211> 2301

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 36

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| gtgtgatttg | tgaggttgag | ttttaatagt | ttaaagaagt | aaatgggatg | ttattttttgt | 120 |
| ggggtttgtt | ttttgtgagg | tgtttatttt | gtattttgta | tgtaaaatga | gggagtgtta | 180 |
| ggaaggaatt | tgttttgtaa | agttattggt | tttggttatt | agtttttatt | taatgttttt | 240 |
| gtgatgttgt | tgttgattta | tttgggaagt | tggttggttg | gtgaggtaga | gttttttttt | 300 |
| aaagtttggt | ttttatggaa | aatatgttta | gtgtagttgt | gtgtatgaat | gaaaatgttg | 360 |
| ttgggtgttt | ttagttggat | aaaatgtagt | tgagaatttt | gtttgttttg | tgtgtttttt | 420 |
| tgtttttaggt | agggaaagagg | ggttggtggg | tgtgttttgt | gtttgttttt | tgtatttgga | 480 |
| ttgtttggta | tgggtagggg | gaggggggtt | ttgggggggt | ggggtttttt | gttgtgggtg | 540 |
| tgaagataga | ttgggggttg | gtagggaggt | tatttttagt | ttagagattt | taggtatttt | 600 |
| ttatatatag | gtttttattt | tggtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 660 |
| gtgtgtgtgt | gtatgtttgt | taatgggagg | aggagagagt | ttttagtttt | tttttggttag | 720 |
| taggggtgat | atttttgttt | atattaagt | gggtaatttt | ggtttttttt | tttggagggt | 780 |
| tggtgtattg | gagaaaagatt | tagtttagagg | tgattttaat | gagttgtggt | tttttttagt | 840 |
| ttaatgttta | gtggttgaag | tggtgtttgg | gtttggattg | tgggatgtgg | ggttggagag | 900 |
| gttgagtagg | tattattgat | tttttagggg | gtttgggttt | tttggatatag | tttgggttgt | 960 |
| tgttggaagg | tgttttgggg | tagtagagag | tttttagttg | gttgttgttg | ttgtttaaag | 1020 |
| gtgttggtgt | tggttgattt | tgtattgggg | tttttttgtt | tttagatttt | gggtttgaaa | 1080 |
| gggttgaggt | gtgttttttg | ttaggggtga | ggttttagtt | ttttgtattt | ttattgttta | 1140 |
| gttagttgga | gtttttggta | gattttgggt | tggtgttttt | gttgtttttt | ttgagtggga | 1200 |
| gtggagtgtg | gagaaaagtt | taagttttgt | ttatttgggt | tgtagtgtgt | tgtaattttt | 1260 |
| tagagtgtta | tggtgtgagg | gaagggtatg | ttaattagga | gagggggtga | gggagatgtg | 1320 |
| gtttgtttgt | agttattttt | gtattttaga | gattttggga | agtttgagt | taggaaagta | 1380 |
| gtgttttgag | gttaggtttg | gggtgttggt | tggtgtgggg | ggtatgtttt | gtgttggtta | 1440 |
| ggggtttgtg | gtttttggaga | gtattttgat | ttagtttttt | attgtttttt | tggtaggtgt | 1500 |
| tgggatttgg | agtgaattgg | tagtttgtaa | gtgggtggat | aagagttagg | gtagggtagg | 1560 |
| gttgggtaga | gtaaggaggg | aaagagatag | ggagtgtttt | aggggtgttag | gaatgagtgt | 1620 |
| tgagtttttg | gttggggtag | aggttttagt | gagagtgtgt | gggtgaaagg | taggggaagg | 1680 |
| gagttgggtt | tttaggtagg | gattgttttg | gatggggaga | ttggtgtaga | tttttaaggg | 1740 |
| agattattgt | tagagtaatg | ttgggttttag | atttttgaaa | tgggttaata | ttttagaaat | 1800 |
| gtagtgtatg | gtgatagtat | taggggagat | ttaagtgttt | ggttggttag | tttgttttta | 1860 |
| agtttttgat | tttttttttg | gatataatgt | tttgattaag | gattgttttag | ttatagtttt | 1920 |
| ttttttatta | ggtttttttg | gttgattatt | ttgggggttt | tatagttttg | agttttgtta | 1980 |
| tggattttaa | gtttggttgt | gaattagttt | tttagatgtt | ttgtatttta | gagattttta | 2040 |
| ggttgatagt | gtgtatatat | attttaattt | agtaagggtg | tttggagtat | gttttagata | 2100 |
| gaaaggattt | agatagattt | tttttgttat | ttggttagtg | tattaatttg | ggtaagttgt | 2160 |
| ttaatttttt | tgagttttta | agttttttat | tgtaaaataa | tttgttggtt | tttttaggatt | 2220 |
| gttgagtgtg | taggattgtg | tttaatagga | tgttttatgt | aatgtatgtt | agtttgggag | 2280 |
| ttgttggtgt | ttgagagtat | t | | | | 2301 |

<210> 37

<211> 2301

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 37

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| atgtaatttt | atttatttag | tagtttttagg | aaggtagtag | attattttat | aatggagaat | 120 |
| ttggaagttt | aaagagggtta | aataatttgt | ttgggttggt | attattagta | gatggtagga | 180 |
| aggattttgt | tgaatttttt | ttgtttgagg | tatgttttaa | attgttttgt | taaattgggg | 240 |
| tatatgtata | tatatatagt | tttgggggtt | ttagggtata | ggatatttgg | aaaattgggt | 300 |
| tatagttagg | tttgggattt | atggtaagat | ttagggttgt | agggatttta | agataaattaa | 360 |
| ttagaaaagt | ttggtagaaa | aggagtata | attgggtagt | ttttaatttg | gattgtatat | 420 |
| ttaagaaaga | agttaggagt | ttgggagtgg | gttttagtag | tgggtatttg | aatttttttt | 480 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggtattatta | tttattattg | tattttttgag | atggttagttt | attttttaaag | tttaaattta | 540 |
| atattgtttt | aatagtggtt | tttttttagaa | gtttgtatta | gttttttttat | tttagatagt | 600 |
| ttttatttgg | gaatttaatt | ttttttttttt | gtttttttatt | tgtaaattttt | tatttgagtt | 660 |
| tttatttttgg | ttaggaattt | aatattttatt | tttagtattt | tgaggatttt | tttgttttttt | 720 |
| tttttttttta | ttttgttttg | ttttgtttttg | ttttgggtttt | tattttattta | tttgtagggt | 780 |
| gttagtttat | tttaagtttt | aatgtttgtt | agagagggtga | tgggggattg | gattgggggtg | 840 |
| ttttttgaaa | ttatagggtt | ttgagtagtg | taggggtgtgt | ttttttagtg | ggttagtatt | 900 |
| ttaggtttgg | ttttggagtg | ttgtttttttt | gtattttaaat | tttttgaaat | ttttgagggtg | 960 |
| tagagggtgat | tgtagggtgga | ttgtattttt | tttgtttttt | tttttggttg | gtgtgttttt | 1020 |
| tttttgtgtt | gtggtgtttt | gagggttaaat | aagtagttgt | agtttggttg | ggtaagggtt | 1080 |
| gaattttttt | ttgtgttttg | tttttgttta | gggaaggtag | tagagggtggt | agtttgggat | 1140 |
| ttggttggag | tttttagttg | ttggataata | ggggtgtggg | gggttggggg | ttgtgttttg | 1200 |
| gtgggggata | tgttttggtt | tttttgggtt | tgggggttgg | gagtaaaagg | attttgatgt | 1260 |
| gggtgtggtt | ggtgttggtg | tttttgagt | atagtagtag | ttgggttgag | gttttttgtt | 1320 |
| gttttgaggt | gttttttagt | gggtagtttg | gttgtattag | ggggtttggg | tgttttggga | 1380 |
| agttggtggt | gtttgttttg | tttttttagt | tttgtatttt | gtaatttgga | tttgagtagt | 1440 |
| gttttggttg | ttgggtgttg | gggtggggaa | aattgtggtt | tgttgaggtt | gtttttaatt | 1500 |
| gagttttttt | ttaatgtatt | gagttttttg | aggaggggaat | taaagtatt | ttatttgatg | 1560 |
| tgggtgagaa | tgttgttttt | gttagtaaaa | aaggattggg | agtttttttt | tttttttgtt | 1620 |
| aatgaatgta | tatatatata | tatatatata | tatatatata | tatatatata | tatgtatgtt | 1680 |
| agagtgggag | tttgtgtgtg | gggggtgttt | aggatttttg | ggtttggaat | gattttttta | 1740 |
| ttgagttttg | atttgttttt | gttgttgtga | ttggagggtt | tgattttttg | aaagtttttt | 1800 |
| tattttgttt | gtgttggttg | atttgaatgt | agaaatgggg | tgtagagtgt | gttttgtagt | 1860 |
| tttttttttt | tatttgggat | aggagaatgt | atagaatgag | tggagttttt | ggttgtattt | 1920 |
| tgtttgatta | gaagtgtttg | gtggtgtttt | tatttatgta | tgtggttgta | ttgagtatat | 1980 |
| tttttggggg | agttagggtt | tgaggagagg | tttgtttttg | ttagttagtt | aattttttta | 2040 |
| atagattagt | agtagtatta | tgaagtatt | gggttagagg | tgatgattag | gattaatggt | 2100 |
| tttataagat | ggattttttt | ttaatgtttt | tttgttttgt | atggttagata | tgggggtgagt | 2160 |
| attttgtgag | gagtgagttt | tgtggagggtg | gtatttttatt | tgtttttttg | gattgttggg | 2220 |
| gttttagttt | ataaattatg | ttgggtaatg | ttagttagatt | ttattttttt | agagaatgga | 2280 |
| attgtatggg | ggattggttg | t | | | | 2301 |

<210> 38

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 38

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| gattgtgttg | ttttttggtt | gttttttttg | ttttttagtg | tgtgtgggtt | tattatttat | 120 |
| gtgtgtattg | taggtttttg | tgtatgatgt | tttagatgaa | gttgttatag | aggttgtatt | 180 |
| atgtgtgtgt | ggtgggtttt | gtgggttgga | agtgggtggt | atgggttaggg | attagtgtgt | 240 |
| gtgtgggggt | gtatgtggtg | ttttgtgtga | tgtgtagtgt | gttggtatgt | tttagttggg | 300 |
| tgtggttttt | tttagtgtgt | ttagtgggtg | ttagtttttg | tagtttaatg | agtttagggt | 360 |
| tttttgatat | ggtttggttg | ggtttgtgtt | ttgttggttt | tgggtgttag | taagtgtggg | 420 |
| ttgggtgggg | ttatagggtg | ggttttgatt | ttagtgtttt | ttttaggatt | tagattgggt | 480 |
| ggtaggaagg | agttgaggag | agttgtgtaa | tggaaatttg | gggttaggga | ttgtgggggt | 540 |
| tgaagggtgg | gttgggtgtg | ttttttagta | gttttttttg | ttttgttttt | tttttttttt | 600 |
| tttgtttttt | ttttatatat | tattttggat | ggttataatg | atgggtgattg | taaagtatta | 660 |
| tgtggagata | tttgtgtttt | tggagggttag | ttttattgtg | tttagaggaa | agggttttta | 720 |
| tatttgggtt | tgggtttttt | ggtttggttt | gttgaagtaa | tatatattgg | ttatttattg | 780 |
| ggtagggtag | gaagtttttg | gttttttatt | gggggtgagg | ggaggggagat | tgggttagtag | 840 |
| ttttattgtt | tgttttgttt | tttattgttg | agattggggg | tttggttagag | gttggattgt | 900 |
| gatttttgagg | tttaggggtg | tattttgggt | ggattttttt | ggtatgggtg | gttgggtttt | 960 |
| agtaattgta | gttttttatt | ggttttgtta | ttttgggttg | ttaggatata | agttttttta | 1020 |
| tgtttttttt | agtgtttgat | ttgggtattt | ttgtaggtag | gtgggtattg | aggatggtaa | 1080 |
| tgtatgtggg | ggatgtggga | gtagggttta | gagggttaag | gttttaggat | attttttatt | 1140 |
| gtagtaatat | tatttatttt | ggtattgtga | gtagtgttta | gaagtttttg | tattgtagta | 1200 |
| agtatagtgg | ggttgttttg | gagttattgt | tttttagtata | tttagtttgt | agggttttagt | 1260 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttattttgggg | gaaaggttagg | aagggtttgat | tgggttttggg | aggtgggggt | attttatttta | 1320 |
| tatttatgtt | ttttgtattt | tttttatttt | ttttgttatt | tttataggtt | ttatttttgt | 1380 |
| gtttgtagtt | gtagggtttt | ttttgagggg | ttgaatata | gttgaggtt | gtgtttggta | 1440 |
| attgtttgtt | atttgttttt | gtttttttgt | tttagttgtt | tttagatttt | tgggattttag | 1500 |
| gagagagaag | tggagagtgg | taggaagggt | ttggtaaagt | gggatagtgg | ttttgagtag | 1560 |
| ttaatttttt | agtgtttatt | tgttttaata | ttagggtttt | tttaggaggt | tgggttttag | 1620 |
| ttagggttag | atgggttagg | aaatttttga | agtgggttag | gttgggtagt | tggtttagta | 1680 |
| gtgtgtttgt | gaggaagggt | tgaagttgta | aggggtttta | gtggaggtta | gtgtgatgta | 1740 |
| ggtgttggtt | aggggttaa | ggaaaaggaa | gggggtgggt | tgggttgaga | atgtttgtgg | 1800 |
| gggtttatgt | tttattagtt | ggtgtgttat | ttgaggttta | aggattgaaa | agagtattgg | 1860 |
| ggttgaggtg | ggtgggtaaa | gataaatagt | agggatgtag | ttggggtagg | atggggaggg | 1920 |
| tggatttggg | gttgtggggg | ttggtgtgga | gggagtttga | ttttgagtag | ttgttttttg | 1980 |
| gtaaaatttg | tgaggtagta | gtgtgtttga | gttttagggg | ttagttagtag | gttgtatagg | 2040 |
| gtgatttata | tttgtttgtt | taattttgtt | agtttttgtt | gttttgaggg | ggttatagta | 2100 |
| tgttaatggt | tgtttttgaa | ttgttttagt | ttgtttgggg | agaggaatta | gtatattggg | 2160 |
| tgtagatggt | gaattttttt | taagttaggt | agtgttgggg | gttgggagat | tgattattgt | 2220 |
| ttgggaatgg | gagaatttgg | gtttaggat | ttgttttagt | tatagggttg | ttgatttttag | 2280 |
| agtagggtga | gttttagtag | tggatatatg | ggttttgggt | gtttagaggt | ttaggtttag | 2340 |
| gttaattttg | gttgaggtat | tttggttatt | ttagtgggtt | tggggatagg | gtttgttttt | 2400 |
| gtgtgtgtaa | gttgtttttt | tttattaaaa | agatattttg | aagtagtagt | ttgggggtta | 2460 |
| ggttggtggg | ggaggatttt | attttttttt | tgttggtttt | a | | 2501 |

<210> 39

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 39

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| ttagggtatt | tttttgatag | aggggggtag | tttgtatata | tgaagataaa | ttttgttttt | 120 |
| aagtttattg | aggatattag | gatgtttttg | ttaaggtttg | tttagatttg | agttttgtag | 180 |
| taggttaggt | ttatgtgttt | attattgagg | tttattttgt | tttggggtta | gtagttttat | 240 |
| agtttgggta | agttttgtag | tttaggtttt | tttattttta | ggtagtggtt | agtttttttag | 300 |
| tttttatagt | tggtttattt | gaagagaatt | taatgtttgt | atttagtgtg | ttgggttttt | 360 |
| tttttaggta | agttgtagta | gtttgagggg | agttgttggt | atattgtggg | tttttttagag | 420 |
| tagtaaaaagt | tgagtaagtt | ggatgggtaa | gtgtggattg | ttttgtataa | tttgttggtta | 480 |
| agttttgagg | tttaggtgtg | ttattgtttt | ataagttttg | ttaagggatg | gttattttaag | 540 |
| gttagatttt | ttttgtatta | gtttttatag | tttttagtatt | gtttttttta | ttttattttg | 600 |
| atttgttttt | tgttgtttat | ttttgtttat | ttattttaat | tttagtggtt | tttttagttt | 660 |
| ttgggtttta | ggtgatata | tagtttagtg | gatatgggtt | tttataggta | tttttagttt | 720 |
| aatttagttt | tttttttttt | tttgggtttt | tggttagtat | ttgtattata | ttgggtttta | 780 |
| ttggatattt | ttgtagtttt | gggttttttt | tatagatata | ttgttggtat | agttgtttta | 840 |
| tttgggtttat | ttgtagagtt | ttttgggtta | tttgattttt | attgaaattt | agttttttta | 900 |
| gaaggatttg | gtgttggaat | aggtagggtat | tggaaaagtt | gttgttttag | attattgttt | 960 |
| tattttatta | gtattttttt | gttatttttt | attttttttt | tttagatttt | agaaattttg | 1020 |
| gagtggttgg | agtgagaaaa | tagaggtaag | tggtaggtaa | ttgttaagta | ttagtttttag | 1080 |
| tatgtgttta | gtttttttga | gtaggatttg | tgggtgtagg | tgtgaaggta | aggtttgttg | 1140 |
| aaatggtagg | gagggtggag | gggatgtagg | aggtatggat | gtgggtgggg | tgttttttatt | 1200 |
| ttttagggtt | agtttagattt | ttttgatttt | tttttaggtg | ggttgagatt | tatagggttg | 1260 |
| atgtgttaga | ggtagtgggt | tttagagtgg | tttgttgtgt | ttattgtagt | gtagagggtt | 1320 |
| ttaagtgttg | tttatgatgt | tagaatgagt | ggtattgttg | taggtgaggg | tatttttagaa | 1380 |
| ttttggattt | ttaagttttt | tttttatatt | ttttatatgt | attgttattt | ttaaatattta | 1440 |
| tttgtttgta | gggagtgtta | agttaagtat | tgggaaaagt | atggaaagat | ttgtgttttg | 1500 |
| gtagtttagg | gtgatagagt | taaatgaggg | ttgtagtgtt | tgagggttga | ttattttatgt | 1560 |
| taagggaatt | tattttagaat | gtatttttga | atttttaagt | tatgggttag | tttttgttgg | 1620 |
| agtttttagt | ttttgttagg | agagttaggt | gggtggtaaa | gttgttgatt | gatttttttt | 1680 |
| ttttttattt | taagtgaagg | tttgagattt | tttgttttat | ttagtgggtg | ggttaagtgt | 1740 |
| gttgttttag | taaattggat | taggaggggt | aggggtggat | gtggggattt | ttttttttta | 1800 |
| gtatagtaaa | gttgggtttt | agaaatatgg | gtattttttg | gtggtgtttt | gtggtgtgtg | 1860 |

44/93

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ttgtttgtggt | tgttttggggt | ggggtgtgag | gaggggatga | aggaggggaag | gaagggttaag | 1920 |
| gtggggggggg | ttttgtgaga | gtgtgttttag | ttttgtttttt | gggtttttata | gtttttgtat | 1980 |
| ttaggtttttt | attgtgtggt | tttttttagt | ttttttttgt | tgtttagttt | ggattttggg | 2040 |
| ggaggtgttg | aagttggggt | ttgtttttgtg | gtttttgtttg | gtttgtgttt | gttagtggtt | 2100 |
| aaagttagtg | aagtatgggt | ttaattgggt | tatgttgggg | gagtttgagt | ttattgagtt | 2160 |
| gtgggagttg | gtatttggtg | ggtgtgtttg | gaagggttgt | atttggttg | agtgtgttaa | 2220 |
| tgtgtgtgt | attgtgtggg | gtattgtgtg | taattttata | tggtagtgg | tttttggttg | 2280 |
| tggttattgt | ttttagtttg | tggtttttgt | tatgtatatg | tggtgtgatt | tttgtgggtga | 2340 |
| ttttatttgg | ggtgttgtgt | gtaaaagggtt | gtagtgtgtg | tgtgagttagt | ggttttgtgt | 2400 |
| gtttatgaga | gtggaagggt | tagttaagggt | gtagtgtagt | tggtgtgggt | taagttgtgg | 2460 |
| tagaggggggt | tggtggggat | agttttttgag | gattaggttt | g | | 2501 |

<210> 40

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 40

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| agtataaaat | tgttttaagt | ttttgatttt | gtattttattt | taaagattag | tgtttgtttg | 60 |
| aagttttgtt | agtttttattt | ttattgaaat | aggtgtatat | ttaggttttaa | agttaaatgg | 120 |
| atttgaaaaa | agttttaagt | tttttttaat | gaatttgagg | tttttaaaat | gtttttttaa | 180 |
| tttttttttg | agatgataga | ttattatttg | atattttatta | ggattaaata | tttttttatt | 240 |
| tttttttattt | tgttgtttta | gtttattaat | aatttttttg | agggtaggaa | agtttgtttag | 300 |
| atttttttttt | ttaatatgtt | tttgaaataa | atttagttta | attttgaaag | tataaatatg | 360 |
| gttaaaggta | gtagtagtaa | agatttttatt | aatattgta | ttttttattga | gtttttgaag | 420 |
| gtgtttttata | atgtttatta | agaagttaaa | gttataaagt | tattgtttgt | ttgagaagtg | 480 |
| gattgttggt | gttttttattg | aaatttaagaa | tgttttttatt | tttttttttta | gagagaatat | 540 |
| tagtttttaa | gtttttttttt | ttttaagtta | attgtttaga | tattgtttat | taattttttt | 600 |
| attatgtttt | gatttagatt | ttgttagtaa | agtttgaaat | ttaggttggt | taatgttttt | 660 |
| ggtttttaatt | aaaattattt | atltggatat | ggattttatg | atltgattaa | tattttatatt | 720 |
| ataggagttt | aatagttttta | agtgaagaaa | ttttgaataa | tgaatgatat | tttaatatgtt | 780 |
| ggggtttatg | gtttttttttt | ttatgtatga | gatgagtttt | gagttttttat | taattatttt | 840 |
| taaagtatgg | gttgtgggtta | gtttaattat | tttttgtaag | ttaagttttg | ttgtttgtag | 900 |
| ggatttttagg | attgttgata | tgagtgtatt | aatattgaaa | tgatgagtta | ggttgattat | 960 |
| ggtagaaga | ttttttttgta | tttttaattt | agggtttata | ttgtggataa | agattaggag | 1020 |
| gtagttttta | taggtttataa | aagtttggtt | gtttaaggta | agagaatagg | ttttaaagtt | 1080 |
| tttggttttg | ttaaaaagtt | ggttgtgtag | atltttgtta | atgttttagga | ttttttgttt | 1140 |
| tgtgatattt | ggagataagt | taatgtttttg | taggatgttt | atatgttttg | gtagtatttt | 1200 |
| ttttagtaatt | attggatatg | aaagtttttt | ttatttttagt | tggtattttt | tggtattttt | 1260 |
| taaggtttaag | aggtggtaga | gtttgagggt | tgtagtgata | gtttttttttt | taggagtga | 1320 |
| ggaggttatg | ggtaagttgt | tttgatgtag | atgtttttatt | agggttgtgt | gtttgtgtgt | 1380 |
| tgttatata | tgtttgtagt | atltgtgttt | agttttgtag | tggtgtttga | tggtgtgttt | 1440 |
| gtgggtagtt | atgatgaggt | ggtgatagat | taggtatagg | gtttttattgt | tttttgagg | 1500 |
| ttttattatt | aaataatgtt | gggttttattt | gggttgga | attagagttt | tggtgatttt | 1560 |
| tattttgttt | tttttggtg | ttattttatat | tttgaggag | gttataagag | taggggtta | 1620 |
| gttagaaagg | ttgtaagggt | agaggaggag | tttgagaagt | gttaagtatt | ttttttgttt | 1680 |
| tgtgttagat | tatttttagta | gaggtatata | agtttggttt | tggtattttt | gtttttattg | 1740 |
| gttggtatatt | ttgtattttt | tgagttttta | aaaatgaatt | aataggga | gtggatagtg | 1800 |
| atltttaatg | tgtaagtgtta | tatttttttta | ggtagtggtt | agtagttgtt | ttaggagggt | 1860 |
| atgaagagat | ttagtaattt | atagagttga | gaaatttgat | tggtatttta | gttgtttta | 1920 |
| taatagttgt | tggtgaagg | tggtgttgga | tggtgttaagt | tatagttgaa | ggaagaatgt | 1980 |
| gagtatgagg | tattgaggtg | attggttgaa | ggattttttg | ttgagtattt | agatgttttt | 2040 |
| ttggtttttt | tggtgttttaa | atgttggtttg | tggtagggtt | tatttggttg | ttggatgaga | 2100 |
| tagtggtgaa | ttgtattgtg | gtgggggaag | ttatttagtg | gttagtta | gttattaaag | 2160 |
| agatgattga | gaattgggt | ggaggaggtt | gagttgggtt | tattttaagg | ttatgattta | 2220 |
| atgggtgtgt | ttattttaatg | gtgtggatat | gtttttttgt | ttgggttag | gtatgtatag | 2280 |
| tgtatgttta | taatgggtga | ggttgttggt | tttttttgatg | tggttagttag | gttttttttt | 2340 |
| ttttttgtaga | ttgtgtgttt | ttttattgtt | tttttttgag | atltttttaag | ggttgttttg | 2400 |
| agtgtaaagt | gaggaatata | tgtagtggtt | ttttaatggt | attgttta | aagtaaggaa | 2460 |

gttattttaat ttaaaattat gtatgtagaa tatgtgaagt t

2501

<210> 41

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 41

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| aattttgtat | gttttgtata | tataatttta | aattaagtgg | tttttttatt | tagttaatgg | 60 |
| tattattaag | ataatattat | gtatattttt | ttattttatat | tttaaataat | ttttaaaagg | 120 |
| ttttggggga | gagtggtaaa | gaaatatatg | gtttgtggaa | aaggagaagg | tttgattggt | 180 |
| atgttaggga | atttgggtgg | ttttgttggt | gtgggtatgt | gttgatatatg | tttttgtttg | 240 |
| ggtaaagagg | tgtgtttgtg | ttattgagtg | atgtggtttg | ttaagttgta | gtttttaagt | 300 |
| gagtttggtt | tgattttttt | tgtattagtt | tttaattatt | tttttgatag | tattagttgg | 360 |
| ttgttgga | attttttttg | ttgtgatgtg | gtttattatt | gttttgttta | gttgttgaat | 420 |
| aatttttgtt | atgaatgata | ttttgggtgt | agaagagtta | aggaaatgtt | tagatgttta | 480 |
| atggaagtgt | ttttagttaa | ttatttttagt | gttttgtgtt | tatgtttttt | ttttagttgt | 540 |
| agtttatgtt | atttagtttt | attttttagt | ggtagttatt | gattggatag | tttgaatgtt | 600 |
| agttaaat | tttaattttg | tgggttggtg | ggtttttttg | tttttttttg | aagtggttat | 660 |
| tgtttgttat | ttagaaggat | atgtgtttgt | gtgttagaga | ttgttgtttg | ttttttttat | 720 |
| tggtttgttt | ttaggagttt | ggggaatatg | aaatathtag | ttaataggag | tagagatggt | 780 |
| ggaattgggt | ttgtgtgttt | ttgttgaggt | gatttgggtg | agagtggagg | agggtgtttg | 840 |
| tgttttttag | gttttttttt | tttttttttg | gtttttttta | tgttggtttt | gtttttgtgg | 900 |
| ttttttgtag | aatgtggatg | atgtttaaaa | gaagtaagat | ggaagttgat | gaggttttag | 960 |
| ttttttgggt | tgagtggatt | tagtgttatt | tgggtgggtg | gtttttggag | ggtgatgggg | 1020 |
| ttttgtgttt | ggtttgttgt | tgttttattg | tagttatttg | tgaatgtgat | gttaggtgtt | 1080 |
| attatgaggt | tgagtatgaa | tattatgagt | ggatgtgggt | ggatgggtgag | tgtgtgggtt | 1140 |
| tgggtggagt | tttgtgttag | ggtgatttgt | ttgtggtttt | ttttattttt | gaagagagag | 1200 |
| ttgtttgtgt | aggtttttgg | ttttgttgtt | ttttggtttt | gaagggttgt | ggttgggggtg | 1260 |
| agggggattt | tgtatattag | tgtatggagg | tgttgttgag | agaggatttg | tttgagtatg | 1320 |
| taagtgtttt | gtaagggtgt | gatttatttt | tagatattat | aaggtagagg | atttttagta | 1380 |
| ttgataggaa | tttatgtaat | tagtttttta | attgagttag | ggattttaaa | gtttattttt | 1440 |
| ttgttttgga | tgattaggtt | tttgtggttt | atgagaatta | ttttttgggt | tttatttgtg | 1500 |
| gtgtagggtt | tgagttggag | gtgtaagaag | attttttgat | tataattaat | ttgatttatt | 1560 |
| attttagtgt | tgggtgtgtt | atgttggtaa | tttttagagt | ttttagagata | gtagggttta | 1620 |
| gtttttagag | aatggttgga | ttgattatga | tttatatttt | gaggatgatt | ggtgagaatt | 1680 |
| taggattttg | tttatatatg | agagaaaagg | ttgtaagttt | taattgtttg | aatgttattt | 1740 |
| attatttagg | atttttttat | ttggaattgt | tgagttttta | tgatgtagat | gttaattaga | 1800 |
| ttataaata | tatatattgaa | tggatagttt | tgattaagat | tagaggtgtt | agggtatttg | 1860 |
| aatttttagat | tttattaatg | gaatttgaat | tagagtatgg | tgaagggtt | aatggatgat | 1920 |
| gtttgaaata | ttgggttagg | agagggaaaa | ttttaaaatt | aatatatttt | tttaagaaaag | 1980 |
| aaatggaagt | gttttttggt | ttagttaggg | taataatagt | ttatttttta | gataaataat | 2040 |
| ggtttttgta | ttttgggttt | ttgggtgata | ttatggaata | tttttgagaa | tttagtgaag | 2100 |
| aattatgagt | tagtaaagtt | tttgttgttg | ttgtttttga | ttatatattg | atttttgaag | 2160 |
| tttaagttgaa | tttattttta | agatatattg | aggaaaaaaa | tttaatagat | ttttttgttt | 2220 |
| ttagagaagt | tgttgatgag | ttaaaatagt | aaaataagga | agatgaaaaa | atatttgatt | 2280 |
| ttgataggta | ttaaatggtg | atttgttgtt | tttaaaaaga | atttgagaga | tattttaagg | 2340 |
| attttaggtt | tattaaaaag | gatttagaat | tttattttaa | tttatttaat | tttaaatttg | 2400 |
| aatatgtatt | tatttttagt | agggtggagt | taataaaaatt | ttaggtaaat | attaattttt | 2460 |
| ggaatgaata | tagaattaaa | gatttggggg | agttttatgt | t | | 2501 |

<210> 42

<211> 3838

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 42

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| gtagtaggta | tttgtttaag | tttgatggaa | ggattttttt | agttttttta | tatatattat | 60 |
| gtaaagtgat | tggtgttttt | gttttttttt | ggagattatt | tattttattt | ttttgagatg | 120 |
| gagttttgtt | ttgtttgtta | ggttggagtg | tagtggtgta | attttgattg | attgtaattt | 180 |
| ttgttttttg | agtagttggg | attatagggtg | tgtgttatta | tgtttggtta | atttttgtat | 240 |
| ttttagtaga | gatgggggtt | tattatgttg | gttaggttgg | ttttgaattt | ttgatagtaa | 300 |
| gtgatttatt | tattgtgggt | ttttaaagtg | ttgaaattat | aggatagagt | ttttatattt | 360 |
| gtttaggagt | ttttttatat | gggagtttgt | ttttaaagat | tattatttgg | tgtaggggta | 420 |
| tttttttagat | ttgtttttat | atttttgtta | aataggagga | agtgaattgt | gttttttttt | 480 |
| atttattttt | ttggagggtt | tatgttttta | atattaattt | tagtatagtt | aaagaaaatt | 540 |
| attttatttt | attgagtggg | gttagaaata | tgattaggtt | atgattataa | ttttgtgtgt | 600 |
| gttaggggtga | ttgagattgg | gtgattttat | ggtgttttaa | tgtgtgggtt | ttgattgatt | 660 |
| atattatggg | tttttttagtt | aaaaatttaa | agtagtggat | aaagtatttg | tgatttaaaa | 720 |
| taagtaatgg | aatgaatagg | aaggtgaaat | tagagtttaa | agtggtagga | taaataaggaa | 780 |
| aaaggaagag | tgaggtagga | agggtttaaa | tgtaggtttt | ttggaggata | agttgttgtt | 840 |
| atatttttgt | ttgttgtttt | gttagtttgt | tttatgtggg | gtgggaaaat | ggttggtttt | 900 |
| gttttggggt | taggtttttt | ttgtttgtta | ggtagtgggg | tttttttttg | ttttttttga | 960 |
| gatggagttt | tgtttagttg | tttaggttgg | agtgtagtgg | tgtgattttg | gtttattgta | 1020 |
| atttttattt | tttgggttta | agtgtttttt | ttgttttagt | tttttgagta | gttgagatta | 1080 |
| taggtatgtg | ttattatggt | tagttaattt | ttgtattttt | agtagagatg | ggtttttatt | 1140 |
| atgtttggta | ggatggtttt | gatgttttaa | tgttgtgatt | tggttgtttt | ggttttttta | 1200 |
| gtgttgggat | tatagggtgt | agttattgtg | tttggtttta | gttaggtagt | tttaattgag | 1260 |
| tgttttataat | tattgagatg | tagtgaagta | ttttattata | aatttttagga | ggttgattgt | 1320 |
| tggttttagat | tttttttttt | ttttaatttt | tgtttaaggg | atttgttttt | attttttatt | 1380 |
| ttagtatttt | taatttttta | tttttttttt | ttggatgggt | ttggggaaaa | taagttgttt | 1440 |
| gagttttatt | tttttggtgt | aatlaattta | gaatgaattt | ttttgttttt | gtgtgttttag | 1500 |
| tgagttggta | tttttagtgt | gaattgtatt | taaaaattta | ggaattgagt | gaattttttt | 1560 |
| agtggttttt | tttattggga | ttttttttta | tgtttttttt | ttgtgttgtg | tttttagttt | 1620 |
| tattgtttat | tggttgtgtg | ttttgttaat | ttgatgtatg | ttgggttagg | taaagattgt | 1680 |
| gaaaaagtgt | gtatatttgg | ttttgggagt | gtgtgtttta | tgttagttag | tagtaggagg | 1740 |
| tgtgtgaggt | attatgggtt | ggtgggttgag | agttagggag | gaattttatt | tatataatgg | 1800 |
| ttgttttttt | gtttttttgt | gggggttgga | gtttttgttt | ttgtttaatt | tgaaatttgt | 1860 |
| tgggttatgg | gttagttatt | ttgatttagg | taagtttgtg | gtggagtggg | aagagtttgt | 1920 |
| gagggtgggt | ttgggagtgg | attgggtttg | ggagttttta | gaggtggtta | taagaattgg | 1980 |
| gaattgggtg | tggggagttg | agttgttgtt | agtggttgtg | gtgtttgggt | tgagggtgggt | 2040 |
| gttagttgat | tttgtggagt | ttattttttt | gggttttttg | ttttaatgtt | gtttgttttt | 2100 |
| tagttaggat | gtttgtttgt | ggtttggtta | ttggtattga | tttgggtatt | atttatttgt | 2160 |
| gtgttggggg | tttttaatat | ggtaagggtg | agattattgt | taatgattag | ggtaattgta | 2220 |
| ttatttttag | ttatgtgggt | tttatggata | ttgagtgttt | tattggtgat | gttgttaaga | 2280 |
| attaggtggg | tatgaatttt | attaatatta | tttttgatgt | taagagggtg | attggatgga | 2340 |
| aatttgagga | tgttatagtg | tagttggata | tgaaatattg | gttgttttgg | gtgggtgagtg | 2400 |
| agggaggtaa | gttttaaagt | taagtagagt | ataaggggga | gattaagatt | tttttttttag | 2460 |
| aggagatatt | ttttatgggt | tttatgaaga | tgaaggagat | tgtggaagtt | tatttggggg | 2520 |
| gtaagggtga | tagtgtgggt | ataatgggtt | tgggtttatt | taatgatttg | tagtggttagg | 2580 |
| ttattaagga | tgtagggtatt | attatggggg | ttaatgtgtt | gtgtattatt | aatgagttta | 2640 |
| tgggtgggtg | tattgtttat | ggtttggtta | agaagggttg | tgtgggtggg | gagaagaatg | 2700 |
| tgtttatttt | tgatttggtg | ggtgggtatt | ttgatgtgtt | tatttttgatt | attgaggatg | 2760 |
| gtattttttga | ggtgaagttt | atgggtgggt | atattttatt | gggtgggtgag | gatttttgata | 2820 |
| attgtatggg | gagttatttt | gtggaggagt | ttaaagttaa | gtataagaag | gatatttgggt | 2880 |
| ttaataagtg | tggtgtgagg | tggttgtgta | ttgtttgtga | gtgtgttaag | tgtattttga | 2940 |
| gtttgtttat | gtagggtgag | attgagattg | atttgtttta | tgagggtgtg | gattttttata | 3000 |
| tgttttattt | gtgtgtttgt | tttgaggagt | ttaatgttga | ttttttttgt | gggatttttg | 3060 |
| agttgggtga | gaagggtgtg | tgtgatgtta | agttggataa | gggttagatt | taggagattg | 3120 |
| tggtgggtgg | tgggtttatt | tgtattttta | agatttagaa | gttgttgttag | gattttttta | 3180 |
| atggtaagga | gttgaataag | agtatttaatt | ttgatgagg | ggtgggtttat | ggtgttgttg | 3240 |
| tgtaggtggg | tattttttatt | ggtgataaat | tagagaatgt | gtaggatttg | ttgttatttg | 3300 |
| atgtgatttt | gttgttgttg | ggtattgaga | tagttgggtg | tgttatgatt | ttattttatta | 3360 |
| agaggaatat | tatgattttt | attaagtaga | tgtagatttt | tattattttat | ttggataaatt | 3420 |
| agagtagtgt | attgggtgtg | gtatatgagg | gtgaattggg | tatgattaaag | gataataaatt | 3480 |
| tgttgggttaa | gtttgatttg | attgggattt | attttgtgtt | ttgtgggggt | ttttaaattg | 3540 |
| aggttatttt | tgatattgat | gttaatggta | tttttaattg | tattgttgtt | gataagagta | 3600 |
| ttggtaagga | aaataaaaatt | attattatta | atgataaagg | ttgttttagt | aaggatgata | 3660 |

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| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|------|
| ttgattggat | ggtgtaggag | gtggagtggt | ataaattgga | agatgagggtg | aattgtgatt | 3720 |
| gagttgtggt | taaaaatgtt | ttggagtttt | atatttataa | tattaagtag | atggtggaag | 3780 |
| atgagaaaatt | gaggggtaag | attagtgagt | aggataaaaa | taagattttt | gataagtg | 3838 |

<210> 43

<211> 3838

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 43

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| tattttgttga | ggatttttgtt | tttgttttgt | ttgttaattt | tgttttttag | ttttttgttt | 60 |
| tttattgttt | gtttgatgtt | gtaggtatag | gatttttaggg | tgtttttggt | tgtgatttgg | 120 |
| ttgtgatttg | ttttattttt | tgatttgtat | tgttttgttt | tttgtattat | ttgggttaatg | 180 |
| ttgtttttgt | ttagatgatt | tttgttattg | gtgatgggtga | ttttgttttt | tttattgggtg | 240 |
| tttttgttgg | tggtggtaat | gttaaggatg | ttattgggtg | taatgttgaa | ggtaattttg | 300 |
| atttggggga | ttttgtgagg | tgtaggggga | attttgggtta | ggttgaattt | gttttagtagg | 360 |
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| gaataggtgg | tgtttaggtt | gatgttgata | gttgggttat | gggtagatat | tttgattgaa | 1740 |
| aggtgagtgga | tgtttaggatg | ggaaaattag | tttgtggagt | tttgtggagt | taattaatgg | 1800 |
| ttattttgaa | ttaagtatta | tgggtattat | tagtaattta | gttttttgtg | tttagttttt | 1860 |
| ggtttttata | gttgtttttg | ggaattttta | gatttaattt | gttttttggga | ttgtttttat | 1920 |
| aaattttttt | agttttatta | taggtttgtt | taggttggag | tgattgggtt | gtgatttaat | 1980 |
| agatttttaag | ttggatgagg | ggtgggattt | tgggttttgt | taggagatag | aggggtgggt | 2040 |
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| gttttagttta | tttgggaggt | tgaggtagga | gaattgtttg | aatttggggag | gtggaggttg | 2820 |
| tagtgagttg | agattatgtt | attatatttt | agtttgggtg | attgagtgag | attttgtttt | 2880 |
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48/93

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| ttaggttgta | agtgttttat | ttattgtttt | gagtttttga | ttggaaaatt | tataatataa | 3180 |
| ttagttaaaa | tttatatgtt | gaaatattat | aaagtatttt | agtttttggt | atttttggtat | 3240 |
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| ttttaaaaaa | ataaaaataa | tggttttttag | gaggaagtaa | agatagtgat | tattttatat | 3780 |
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<211> 2893

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<220>

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| gtgggaggtg | ttttgttttt | atattttatt | gtttttttta | atttaggttg | gggaggggat | 180 |
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| ggtgttgtaa | tgtagtgttt | tagtagtttg | aagaggtagt | tgaagttttt | gtggttgtaa | 480 |
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| ttgtaggtgt | ttaggagtgt | gttgggtgtg | gtgatgtgtt | ggtaattggg | gtgtgaatgg | 720 |
| aatgtgtgga | agtgtgtgtt | gttgggggtt | gggggttggg | ttgtggggta | tggttgtggg | 780 |
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| ggtgggtggg | ggtttgggtg | aggtggagtt | tggttttttg | gtagtattga | gaggggggtg | 1200 |
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| ttgtgttttt | tggttatttt | ttggattttt | tttttggatt | tgggtatttt | gatttttgtt | 1920 |
| tggtattttt | ggttttattt | tttgttgtta | gggttttttt | ggatgtgttt | tgatataatt | 1980 |
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| gtgatttagt | gatttttgatt | gttgtgtgag | gttatggagt | aggtgttttgg | ttgttttgtg | 2760 |
| tatttttgaa | tgaaggtatg | tgaggagttt | tagtattata | aggggttata | taaaaatttg | 2820 |
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<210> 45

<211> 2893

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 45

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| ttatttcaaaa | atatatggag | tagtttaggtta | tttatttttat | ggttttgtat | gataaattgga | 180 |
| attattaaat | tataaatatg | tgtgtaaatt | atagttttga | ttattgattg | tttattatttt | 240 |
| taagtttttg | ttgtgtgtgt | gggtgggaagg | tagttttttga | agggtagatg | ttttagtggag | 300 |
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| gttgggagtg | ttgtttttttg | gagttgtttg | gttgggtgtat | atttgttttgg | ttttgttagtg | 1920 |
| tttttagttta | ttttttttgtt | ttttttttag | tgtattttttg | gatgtttatgg | tttattttttt | 1980 |
| tgggttgggtt | ttttttttagg | atggttagtat | ataattagggt | ggtagttgat | aatgtagttt | 2040 |
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<211> 5898

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| agtttatgtt | ttattttttt | agtttatttt | ttttttaatt | ttgttttatg | tatttgtatt | 5640 |
| tgtatttggt | atagttgtat | tttagtattt | tgaatatagt | tttttagtatg | tagtaggtat | 5700 |
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| tgttatatat | gtgatttttg | gtaattttatt | tagttttttt | tggagatgat | tatgggtttt | 5880 |
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<210> 48

<211> 2501

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 48

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| ttgttttttt | tttttttttt | attttgtatt | ttggagttaa | ttatagtgtt | tgttgttttt | 120 |
| ttgtttgtgt | tataagtttt | tattatttag | tttttattta | taagtgagaa | tatttagtat | 180 |
| ttggattttt | gtttttgtat | tagtttggtta | aggataatag | tttttagttt | tatttatgtt | 240 |
| tttataaaag | atatgattta | gtttttttta | atggttgtat | taaatgaagt | tttaaagata | 300 |
| taatatataat | attaattttt | tttttattat | aaaaattttt | tgttgaattt | gattatatatt | 360 |
| aaattaatga | gttttggttt | atgaaagatt | ttttggataa | atttgatagt | tgatggaata | 420 |
| ggagaagttg | tttggttatgt | ttaaagttta | taagagatta | atatttagaa | taaatggaga | 480 |
| tttgtaaatt | aatagaaagt | aggtagtaaa | gttaaagaaa | atagtttaag | gtatagttat | 540 |
| taaaaggaat | gtgattatgt | tttttgtagg | gatatgggtg | gagttggaag | ttgttagttt | 600 |
| tagtaaatat | atataggaat | agaaaattag | tgagattgta | tggttttatt | tataagtggg | 660 |
| agttgaataa | tgagaatata | tggttatatg | gtgggtgatta | atatatatattg | gtgtttgttg | 720 |

| | | | | | | |
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| agtggggtgt | tggggaggga | gagtattagg | aagaatagtt | aagggatatt | gggtttaata | 780 |
| tttgggtgat | gggatgattt | gtatagtaaa | ttattatggt | gtatatattt | atgtaataaa | 840 |
| tttgtatatt | ttttatatgt | attttagaat | tttaataaaa | agttggatgg | ttaggtgtgg | 900 |
| tggtttatgt | ttgtaatttt | agtatttttg | gaagttgagg | tgtgtagatt | atttaaggtt | 960 |
| aggagtttga | gattagtttg | gttaatatgg | tgaatttttg | tttttattaa | aaatataaaa | 1020 |
| attagttaga | tgtggatgt | atttataaatt | ttatttatatt | gggaggttga | agtagaattg | 1080 |
| tttgaatttg | agaggtggag | gttgtagtga | gttggttgaga | ttgtgttatt | gtatttttagt | 1140 |
| ttgggttata | gtgtgagatt | atgtttataaa | ataaaataaaa | ataatataaaa | ataaaaataaa | 1200 |
| ataaaataaaa | ataaaataaaa | ataaaataaaa | ataaaataaaa | ataaaaaaat | aaaaataaat | 1260 |
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| gatggggttt | agagttttta | gtatgggggt | aatttgtagt | attaggtttg | ggtttttggg | 1800 |
| agggtttttt | gtttattttg | agattttggga | tgggggttta | ggggatttag | gatgttttta | 1860 |
| gtgttgtag | tgggttttag | ggggtttggga | gtgttttggg | gagggatggg | attttggggg | 1920 |
| tggggagggg | gggtagattg | tgtttattgt | gttttggtat | tttttttggg | gttttagtaa | 1980 |
| attttttttt | gtttgttgta | gtgttggttt | atatttggtt | ttatttttta | gtttgaggta | 2040 |
| ggagtatgtg | tttggttagg | aaggagggtg | ggggttgggg | ttgtagttta | tagttttttg | 2100 |
| tttatttgga | gagatttgaa | tttttttatt | tttttggtgt | gtgggtttta | ttttgggttt | 2160 |
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| tggtttggtg | tatgttggtg | gtagattagg | gttagagttg | gaaggaggag | gtgggtattg | 2400 |
| tggagatgtg | gtaggagggt | ttattttaaag | ttttttgtgt | aagtgattat | gtttgggtaa | 2460 |
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<210> 49

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<220>

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| tatgtaggag | gttttgagt | agtttttttg | ttatgttttt | atggttatta | tttttttttt | 120 |
| ttagtttttg | ttttgatttg | ttagtagtat | gtgtagggtt | gtgtagtgg | ttgtggggag | 180 |
| ggagaagtat | gagatgtggg | gattgggttg | attttgtttt | gtagtaattt | ggggaggggg | 240 |
| taggagtgtg | gggagggaa | agggaaatag | gtttttttga | agattttata | taatatggg | 300 |
| gtggggagta | ggtatgggtg | gagaggtggg | gaataggaag | gaggtttggg | gtaaaagtta | 360 |
| tatgatggag | ggataagggg | gtttggattt | ttttgggtgg | gtgaggggtt | gtgggttgta | 420 |
| gttttagttt | ttgttttttt | tttttgtag | atatatgttt | ttattttgaa | ttgggaaata | 480 |
| gattatgggt | taggggtggt | ttgtagttaa | taaagaaaag | tttggttgag | tttgggggag | 540 |
| gatgttaagg | tgtgggtgag | gtagtttggt | tttttttttt | gtttttgggg | ttttattttt | 600 |
| ttttgagggt | ttttgggttt | tttgaaagtt | gttaatggta | ttggggatgt | tttgggtttt | 660 |
| ttaggttttt | gttttggttg | ttgaggtggg | tgaggagttt | tgttgggagt | ttgggtttga | 720 |
| tgttgtgggt | tgttgggttg | ttgggagttt | tgagttttat | ttttggggat | gtgggttggt | 780 |
| tgtattttatt | gggtgtgaa | attgtgggtg | tgaattttta | gtgaagggtt | tgtgggtttt | 840 |
| gagttttata | aggggtgggt | tgttttggtt | tgttttagtg | ttgagttatg | gtgttggttg | 900 |
| tttttttgga | gggttttggt | gatttttggt | ggtttttagt | ttgggtgggt | ttgtattttg | 960 |
| ggtgttggtt | gtagaggggt | gttttgaggt | ttttggaggt | gttggttagt | tgggtgggga | 1020 |
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| aggattgtag | tgaagtgtgt | gtagtgaatt | ggtgtgttgg | gatattgtgg | ggggaaattt | 1140 |
| tttaagattg | ttgtgatttt | ggagtttgta | tatttgtttt | atagggtagg | ggagaggggt | 1200 |
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ttttatttta ttttatttta

[illegible]

| | | | | | | |
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| g g a t a t t a t t | g a g t t t t a t t | t t t t a t t t a a | t a a a t a t a g a | a g t g g a t g t t | t g g a t a g g t a | 120 |
| a a g t g a t t t g | a t t a a g g t a g | g t g t a t a g t t | a t t t t g t a a t | a t t g g g a a t a | a a t t t t a g g t | 180 |
| t t t t t g a t t t | t t t g t t t t t a | t t t t a t t t t t | t t t t t a t t t t | t t a g a a a t a a | a g t t t t t a t g | 240 |
| t g t t t t t t t t | t a t a g t g a t a | t g t t t g g a a t | g t a t t a g t t a | g t a a t t t a g g | a a g g g a a a a a | 300 |
| a a t a a a t a t a | t a a g a g a t a a | a t t t g t t a g g | a g g a t a a a t t | t g t a t t g t t t | t t g a t t g g t t | 360 |
| t a g a g g g t g a | t t a t t a t t a t | g g t a g a g a a t | t a t t t a a a t a | g t g t a a g t a a | a a t t t t t t t g | 420 |
| t g g g t t g g g t | a t t g t a t a a a | g a t t t a a a t g | a a t t t g t t t a | t a g a t t t g a a | a a g t a g a t a t | 480 |
| g a g a t t t t g t g | a a t g g t t g g g | g t t t t t a a g t | t t a t a g t a t a | a g t a t g g g t t | a t a t t t t t a t a | 540 |
| g t t t g g a g g a | t t g a g t t t t g | a a a a t g g g t a | a g t t t t t t t a | t t t t t t t g a a | t t t t a t t t t t | 600 |
| t t t a t a t t t a | a a a t a a g g a t | g a g t a g t t t t | t g a g g t t t t t | t t t a t g a t t t | t t t t t t t t a t | 660 |

| | | | | | | |
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| agatttttagt | attttataat | ttgatataaa | gaggggtggat | atgaatttat | tttttttaga | 720 |
| aaagtttttag | gaaagagaat | attaggttat | tttagtaggt | gtgtagatag | gtttagataga | 780 |
| ttttgaaatt | tatttagttt | tttttagatg | tataatttta | ttattgtttt | tagttgttaa | 840 |
| gagaaagtag | gagagtttgt | atttttat | tttttttttt | tttttttttt | tttgagatg | 900 |
| gagttttatt | ttattattta | ggtagagtg | tagtggtagt | attttagttt | attgtaagtt | 960 |
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| atatttttagg | taaggttttt | tgttggagaa | aatattggta | ttttggataa | aattgaaatg | 1740 |
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| tttggaaagt | tttttaaaat | tttttatatg | attgtggaat | aagttatgtg | gggtgtgggg | 1860 |
| ataagtgaat | tttttaaatt | ttattatgta | tgtttttatt | taatttggat | ttttagagtg | 1920 |
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<212> DNA

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<220>

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<400> 53

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| tgTTTTgttt | ttttaagtag | tgttgtagtt | ttggtttag | tgtgggggtt | gggtggggta | 180 |
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| attaattaat | atttatttat | tttagtagga | ttgtttttat | aggtgagggg | tggttatggt | 1020 |
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| atatgataga | agattgtttt | ttgtgttttt | ttagagtaaa | tgggggtttt | tatttattta | 1260 |
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| ctcctcagcc | gctgtctccg | ggtggctgtg | aagatccaaa | gagataatcc | ccggagggcg | 2400 |
| aagtctcttc | atatgtaagg | tggcgctatt | gttattactt | cccgaccact | taagagtcct | 2460 |
| tcacaggctc | agaccccggc | ttcctaattt | ccctccctcc | ggaagatgct | ttggccttgg | 2520 |
| cggtcccag | gcccaggtta | tcaggcacac | tttgcggtcc | agctgcttag | aggagccggg | 2580 |
| taatgaatga | atgggtggca | aaagcccact | cagtgttatc | tgctgaccgt | aaacacgcca | 2640 |
| ggaaatcgt | catctggaga | gaatgcacat | tctgaactcc | aagaatctgc | gtccctaaga | 2700 |
| gcccagcttc | cgggtgctct | gctggggaag | ggcccggggt | agctgcaaaa | ggcctctctt | 2760 |
| ccccaaatt | ggttcagggc | cttttcgtct | ctaacgaaag | caccaagagg | cctaaaagcc | 2820 |
| cccttcccaa | cataaactac | tttgcaatga | aaccacaaag | gaaacagaag | cacaccaaaa | 2880 |
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| atcccacacg | ccctccgctg | gggtgcgctc | ctccccgcag | agccccctgt | tgggagttca | 3060 |
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| tggcggcccc | cgcgctccgc | gcgcgggctg | cattgttttg | ggagccctcg | ctgcccggct | 3180 |
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| acctctggcc | agcttgtttg | cccgggccgc | ggcgtcccct | gcggcccatc | gctgctcctc | 3300 |
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| gaagaagctt | gaggcacaaa | gaaagccccc | agcaatctct | ccagaacaat | ttggcttctt | 4020 |
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| agattctgtc | ctgtcaggga | gtccgcttgg | cctccgcgaa | gagctgggaa | aagcgagcct | 4140 |
| ccccacccca | ctctcaagta | gtaaaatcaa | agcggatgga | cccttatattc | tgaggagtga | 4200 |
| aagcgagaag | aacgatgcgt | gtaaaatgct | agttccttaa | ttcacacaat | ccagcaccgg | 4260 |
| ctcccgatg | atcattttgc | acacaagcag | tcaactggga | actgaggcat | ggagaggtta | 4320 |
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| agggtgaagt | actaccgggc | tagccttggg | gacctgtcgc | gacttgtcgg | gtgtctccaa | 4440 |
| ccgcgttgcc | gcctggcctt | cagccgtgcg | ctggccagcc | gggcgggtga | cgctcacctct | 4500 |
| cccggggtcc | gtgcacccag | gccttccctg | ctccgggtga | gtattttttc | atgggattca | 4560 |
| gccaatctgg | ggcgccattt | cccaaaacag | agattgtccc | tttgagggtg | caagtcaggt | 4620 |
| tcctttacgc | tgagatccct | tacattttta | cttttaggaa | ggttttttcg | aggggtgggg | 4680 |
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| cgagaccaga | gtctgcgtct | ggagagcctt | tgccccctcat | cttaggaaga | gtctagctctg | 4920 |
| agaacaaaca | gtttgccaac | tcctaccccg | agcttctcgc | cgtatctcct | taaatatttc | 4980 |
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| caatctgggtc | tgtgggttca | aagccagtgt | gaaccccacg | ttcccagagac | ctctttgccc | 5280 |
| caaacaagta | cagcgaagtt | ttgaagctca | gtagaaaatg | actaaaaaac | agtccaaact | 5340 |
| ccaaatgat | aaaaacaagt | acacctacaa | ggataatctt | ctgcaacaga | acattttctt | 5400 |
| gttcttcccc | accccatgag | tgttttagtc | cacagctgac | tgggaataga | ctgaacgcta | 5460 |
| ttttgtacta | tgcttctctc | aggaagatag | aggcatatca | tggaggctgg | ccgtgggttg | 5520 |

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| gtgccttggc | agagaccagt | ttctgtttct | tctgttgttc | cttcaataag | aaaatagccc | 5580 |
| tagaaatttt | gggagaatga | atggggcgaa | ggcatggcat | gtcttttttg | tatctctggg | 5640 |
| ctgcttctga | ttaaaaaaca | acaaccaaaa | aaaaaaaaaa | aaacaaaaaa | aaccacacac | 5700 |
| acaaaaatcc | tcgagggcag | ttcggcgagc | tcgacttgtg | gggaggaaat | tccattttctg | 5760 |
| tttagtgcac | acgtccttac | tctagccttt | tatttatagc | ataaggctctc | aaatttgctg | 5820 |
| gaccagtaga | aattcttttag | tctttgcatt | cctaaatttg | agattgatgt | taccggtgta | 5880 |
| catctatg | | | | | | 5888 |

<210> 65

<211> 1738

<212> DNA

<213> Homo Sapiens

<400> 65

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| gtcaataacg | tgtaatgtgt | ttaacacttg | ctcagacacc | tagcaacacc | tgtttactgc | 120 |
| tattatcatt | tctgttatta | ctataaatgc | aaacatcatc | gaaggctccc | tttgtaagca | 180 |
| aaatcttttt | ttttttcttt | atgggggtga | gtgctctccg | ctagctccta | aaattcctat | 240 |
| gggagaaacc | agactttttc | tgaagaaaaa | gtttccccc | ttctttccca | cctcctacaa | 300 |
| gctcagacg | cccctggcag | ccttaggtgt | ggccgcccag | ttctcgattg | gcagccacag | 360 |
| ccccggggcg | ctcctcgcc | ccctccatcc | ttcctacggc | ctcaccctcc | gggaggtccg | 420 |
| tgacgatggc | ttcaggcgag | atgcacaogc | cacggtcata | gacaggcagc | tcgtcgcagg | 480 |
| ccaggctttc | gggccagctg | tggttgtaca | tcttcatgag | gggctcgcag | tcgtcgcgcg | 540 |
| cgcgttgcca | caccgacttg | cacggcttga | tagggctcgt | caggaactcc | aggggtgcaaa | 600 |
| tggggcgcgta | catggcacag | aggaagaagc | gcagcacggc | gctgcagttc | acgtccacca | 660 |
| gctcctcgta | ctgctcgatg | gccaggatgg | cgttctcctg | cgtgctgtgg | tgcaagggtgg | 720 |
| tgggcatccg | cgtgatgttc | cagggcattg | gccggcacat | agggatgcgc | accgcctcgc | 780 |
| agggcgcgcc | gcgcacgccc | agcgccaggt | gcagccacag | gcacagcgcc | actaggatgg | 840 |
| agaggaaacat | ggcactgccc | tctcgcgctg | cgaccccgcc | agacagaaag | cgcccttctc | 900 |
| ttcctgccac | cctcatcttt | cgtgtccct | tcgccgagga | agaaatcctc | tggggcgcgag | 960 |
| gagagtttct | tccccaaaac | tccagtccgc | agcaaagcgg | ggccgcgggg | tccggccgcg | 1020 |
| gagctccgcc | gtctggcaca | cagggcacga | gcagcgccag | ctctcagcct | tccggggcgcg | 1080 |
| aaccgcgccg | ggcagctcca | gtcccggact | ccgcagctcg | gagcgcagcc | agccacggcc | 1140 |
| attgcgggac | cctattttatc | ccgacacctc | ccctgacgtg | ggctcggaac | gctcccttgg | 1200 |
| cagctgcagc | cgcggcgccg | gctccccctc | ggccgcccc | ccccagggc | cgtcgggtgca | 1260 |
| gaagcgggtga | catcaccctc | tctgggcgcg | agcccagggc | tggaagcctg | ctttccccct | 1320 |
| aaagtccctc | cttttttagtc | tggccagctc | tttttcttcg | gaccaagaaa | aagaacctct | 1380 |
| ggcagttggt | ttcgacaccg | gatacaagag | ggtgcgggag | agaatttcaa | gagagagaaa | 1440 |
| gacactcttt | ggctgaaaac | tgaactttgc | tccctctgcc | ttagagtttt | tccaagtata | 1500 |
| gagttggggg | aaaataggag | cttctgctgc | cctctaattc | tgaaatatat | ttgctttctc | 1560 |
| cggtaggggg | catgaggagc | gctgaggaca | gttgggacaa | tgctctgcaa | ggcaggcgag | 1620 |
| agtgcagtga | atgtcagaac | aggaggggtca | cgttgtataa | atcaactcca | ctccgccctt | 1680 |
| agttgtgtgg | agtgtggttt | gttgttgttg | ttgctagtag | acagtttggg | ccgaaatt | 1738 |

<210> 66

<211> 1755

<212> DNA

<213> Homo Sapiens

<400> 66

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| gaggggtggag | atcttaggg | tccaggtaca | gaaaacgggg | acgcagatca | tagtccagaa | 120 |
| cattcttagt | ccccagctct | tctccacatc | ccttccctca | cctctcctct | cttcccaagg | 180 |
| tcccaacacg | gagtggggat | gatgcttgct | ttgggtgcctc | gggatccagg | tgaaaggcat | 240 |
| tgtttaacga | ccccaggcat | tcttgggctg | agaggggtca | taaggcattt | atcaggacgt | 300 |
| cccaggattg | gggggacggc | attgggggat | tctcagcagc | ttggttggat | gggtactgag | 360 |
| aggggtgcca | ggggtttcca | gggaacgaga | gccagagggg | aggtctggag | ccgccgggag | 420 |
| gcactatgct | gccactccct | ggggaggtgg | gaaggcgagg | aggtctcggg | ggataattcc | 480 |
| ggggacgctg | ggctgagcta | ggacagcgctg | tgtgtgtgtg | tgtgggcgga | gggggggagc | 540 |
| tgcacctctt | ggggggttcg | cagagctgtg | ctaggggagc | tcagggccg | tcggagcgcg | 600 |
| cggggacggc | ggcggcggcg | ctacctggag | gcgcgggtgg | gggcaggtgc | ccgaactgca | 660 |

| | | | | | | |
|-------------|------------|------------|------------|-------------|------------|------|
| cggcgatgca | gaggtcggtg | tccaggggga | acttgtggca | gtgcagcatc | tcaggccagg | 720 |
| ggaagccgta | ggcctccatg | agcggcgcg | agccggcgcg | cacggcctcg | cacagcgagc | 780 |
| ggcacgggta | gatgggccc | tcgagacaga | cgggcgcaaa | gagcgagcac | aggaagacct | 840 |
| gcgtatccga | gtggcagcgc | ttggccagca | gcggcagcca | gctgctcgcc | tgctgcttca | 900 |
| cttcggccag | gctctcgtgc | tccagcaggt | tgggcagccg | catgcgcttg | tagcccaccg | 960 |
| tgtggcagag | cggcaggtcg | gcagggatgt | caaggcactg | cggcggttg | gagtaggagc | 1020 |
| ggcgtgcag | cggctcggcc | tgccagccat | agtagtcgta | ctcctcgag | cgcgcggcg | 1080 |
| cccagtgag | cgcggccagc | agcagcgcca | gcgcggccgt | ccgcacgccc | cccccgccg | 1140 |
| ccgcgcggcg | catggctgcg | ccctctccag | gtgcgcggcg | cgcagccccc | cgacgctcgg | 1200 |
| tgcccgggcg | cccaggtgtt | cggcggtgcg | cccccgcccc | tgactctacc | cagccgccc | 1260 |
| cgccgcggcg | gcggaggtcg | cccaggtggg | tggcagccgt | cgtgcggggc | gccccgactg | 1320 |
| atcctggcgc | ctccacctc | ggggctccag | cccgggcctc | gccgtgcgcc | ccagccaatc | 1380 |
| tccggccggc | tggccccagc | tccaaggcgg | ggaggcagtg | ggggcgcccc | tcagcccctc | 1440 |
| ccgcacccctg | cccagcgtc | ccgcccagcg | ccaggtcttg | cgcggcctctc | ccggctcggc | 1500 |
| tccctgccc | cagccctggc | ctcgcccagc | gtttctcccc | agggctccct | gcctccctgg | 1560 |
| gcattttcct | cgacccctgc | cttctccatc | cttctcctt | atctctctcc | gccacagcct | 1620 |
| ctcctgttcc | ttttctcact | caattcactt | gcttatctct | ctgccttggc | ttttctccct | 1680 |
| ctgctctgtt | ttctcttccc | cgaacacctg | gttcctcttc | tccctggtgg | gaggctcgtg | 1740 |
| ccacccca | ccctg | | | | | 1755 |

<210> 67

<211> 7721

<212> DNA

<213> Homo Sapiens

<400> 67

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| taaaaggact | ttgcccnaat | ttaggggaaa | tgaaggtgcg | tgggctcaact | ctgcagctgc | 120 |
| agttttcagc | ccttgacgtt | tagaagattc | tgcattagca | cggatgccac | gagggatatcc | 180 |
| agcgagtggg | aaggaggtcg | ccctacatgt | tttcacatcg | atgtgtaaaa | ctgttttgaa | 240 |
| agggatatttc | tagatccatt | tggtccaaat | gcagcaaaat | tcattccgata | tcgctcacaa | 300 |
| tgcattgcacg | ggttatctta | catgtaatat | ccatcgtatt | aaccaaccca | gctgatactg | 360 |
| agatgggtgaa | tggggcgggg | gagcagggag | gaatatgtcg | cgcattgaaa | actccgggtg | 420 |
| taaaagtcaa | tgcagaactc | actccccgag | gaaccgaaaa | agacattcac | gactctcaag | 480 |
| tggagagagg | atagaaagtc | aagtggcggg | ggtcgcgacc | agtgatcggg | atttcagtct | 540 |
| gatctcagta | cccagcgga | caggaccata | acctaagaa | atgagctttt | tccggagcaa | 600 |
| agagcgggcc | cgatttcaaa | gtagaaaaaa | taaactgctt | gggggtggaa | gatggcgagg | 660 |
| ggcggggggc | ggggagggag | gcgggtcgcg | gcgctggctc | cggggtccgc | ggcacggcct | 720 |
| cctctgcgcg | gctgccaggg | gcccggacc | tgccggcgcg | tgccggccac | gcgaggggtg | 780 |
| cagaccgcgc | gcgcgcgcgc | cgcgctctcc | cagccgcggc | cccccccccc | gccgcttcc | 840 |
| cttgctctcc | cagccccttc | ccccacgtgt | ggatgacgtc | aaaattccgc | gaaaaagccg | 900 |
| cgtggtggct | ccccgagcgg | aggcgcgatt | ccgcgcgcca | gcggccccct | cccggggggc | 960 |
| cctggagggg | gagaagggcg | gaggcgggcg | gttccttctc | ctcccgggag | gcaggacccc | 1020 |
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| agcaaatgta | tttccagagc | tattttcggc | cgcgtgaggg | gtgtcctaag | ctgaatcaga | 1140 |
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| gatgctagg | gggtgacaga | cggcagggcg | tcgccttctt | aactcacgcc | tgctgcattc | 1260 |
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| gcggagaagg | cgggactcga | actcgcgctg | ctcccgggcc | ttgagccgac | cgcggaatca | 1800 |
| cctggctggg | aggcatcctc | caggtaagct | tgggagtatg | tgctgcttagt | gctgcaggct | 1860 |
| cctgcagaaa | agtgcctata | aacacccaac | accctgctgc | accctccacc | tccaggcttt | 1920 |
| gtacactttc | caaccgaaac | tccaaaacgc | tagcgtagag | ggtggggagc | cggccggaaa | 1980 |
| agaataaaaa | gtccaataaa | actggcgctt | gctaaagtgt | atcaccagtc | ctacatggga | 2040 |
| tatatatata | tgtatttttt | tttcogtgaa | gggtgaaaag | gagataagga | agaaccaaca | 2100 |
| atctaccccc | tcccgcgcgc | ccccaccccc | gcgcccaggt | gatcagtttg | gacttcaaag | 2160 |

| | | | | | | |
|-------------|------------|------------|-------------|------------|-------------|------|
| ccagagcaca | ggctcttgcg | ctttttcttg | aaaccgaagt | ctacactgaa | agaaagtgtg | 2220 |
| cacttttgcc | tagaaggcaa | catgcgtttt | cccgcgtgct | aggtggagt | cattttaaca | 2280 |
| agacattagg | gttttaacac | atggctggag | tggcgaccaa | aagggaac | tcagtttcca | 2340 |
| gtccaagcct | cctagagaca | ttcctgcca | cctccgcacc | ctctcacgcc | ccacccacg | 2400 |
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| agtcagtaat | cggaagggga | agtggacagg | ggaacttcaa | gaggcgagcc | tgccacgcgg | 2520 |
| gaagcgcccg | aacttgccgg | tctccatgaa | tgcagagggc | gccgggaagg | gggggcatcc | 2580 |
| ggccgcgacc | ctctctgccc | ctcccattcg | ctgccccctt | ccccgctgga | atttctctgt | 2640 |
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| tgcaactttc | tttgatccgc | tcaaagggtg | cttaggtgaa | attggagtaa | ttcccttatg | 3060 |
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70/93

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<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 70

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<210> 71

<211> 1738

<212> DNA

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<220>

<223> chemically treated genomic DNA (Homo sapiens)

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75/93

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<210> 72

<211> 1755

<212> DNA

<213> Artificial Sequence

<220>

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| gaggggtggag | attttagggg | tttaggtata | gaaaacgggg | acgtagatta | tagtttagaa | 120 |
| tatttttagt | tttttagttt | tttttatatt | ttttttttta | tttttttttt | ttttttaagg | 180 |
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| ggtacgggta | gatgggtcgg | tcgagataga | cgggcgtaaa | gagcgagtat | aggaagattt | 840 |
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<210> 73

<211> 1755

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 73

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| tgagtttga | ggtaggaat | atgtagatag | tatttaggag | ttgtagatgg | gatttcggag | 180 |
| tcgggatttt | agttaagaaa | cggtttaggt | aatttatggt | tagagggaag | attttttttt | 240 |

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| tatatataga | atgaatatta | ttttatttta | atgttgtagg | tttatggaag | agttttgatt | 3900 |
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| gaagaagttt | gaggtataaa | gaaagttttt | agtaattttt | ttagaataat | ttgggttttt | 4020 |
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| agattttgtt | ttgttaggga | gtttgtttgg | tttttgtgaa | gagttgggaa | aagtgtgatt | 4140 |
| tttattttta | tttttaagta | gtaaaattaa | agtggatgga | tttttatttt | tgaggagtga | 4200 |
| aagtgagaag | aatgatgtgt | gtaaaatgtt | agttttttta | tttatataat | ttagtattgg | 4260 |
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| ttgtttttga | ttaaaaaata | ataattaaaa | aaaaaaaaaa | aaataaaaaa | aattatatat | 5700 |
| ataaaaaatt | ttgagggtag | tttgggtgag | ttgatttgtg | gggaggaaat | tttatttttg | 5760 |
| tttagtgtat | atgtttttat | tttagttttt | tatttatagt | ataaggtttt | aaatttgttg | 5820 |
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<210> 77

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<220>

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<400> 77

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| gtattaaata | gaaatggaat | ttttttttta | taagttgagt | ttgttgaatt | gtttttgagg | 180 |
| attttttgtt | gtgtgggttt | ttttgttttt | tttttttttt | ttgggtgttg | ttttttaatt | 240 |
| agaagtagtt | tagagatata | aaaaagatat | gttatgtttt | tgtttttatt | atttttttta | 300 |
| aatttttagg | gttatttttt | tattgaagga | ataatagaag | aaatagaaat | tgggttttgt | 360 |

| | | | | | | |
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| taagggtatta | atztatggtt | agttttttatg | atatgtttttt | attttttttga | gagaagtata | 420 |
| gtataaaata | gtgttttagtt | tattttttagt | tagttgtgga | ttaaaatatt | tatggggtgg | 480 |
| ggaagaataa | gaaaatgttt | tgttgtagaa | gattattttt | gtagggtgat | ttgtttttat | 540 |
| tattttggag | tttggattgt | tttttagtta | ttttttattg | agttttaaaa | ttttgttgta | 600 |
| tttggttggg | gtaaagaggt | tttgggaatg | tggggtttat | attgggtttg | aatttataga | 660 |
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| agatttttga | aataatttaag | gagatatgtg | taagagtttg | gggtaggagt | tggtaaattg | 960 |
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| ttttatttga | ttgaggtata | tgtaatgtta | gtagttgtat | tattttatggt | gtggtttggg | 1560 |
| ttgttattta | atttttttat | gttttagttt | tttagtgatt | gtttgtgtgt | aaaatgatta | 1620 |
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| tagaatttga | atgtgagagt | gaaggttttg | tttgttttaga | aatttttcta | gttagtatag | 1860 |
| gtttaaataa | gaagttaaat | tgttttggag | agattgttgg | gggttttttt | tgtgttttaa | 1920 |
| gttttttttag | tgtttttagt | ataggaaata | tttaagtaga | gaagtagagt | taaaatttagg | 1980 |
| atatgggagg | ttaggttttt | ttttagattt | tgtagtattg | gggtgggagt | atgtttattt | 2040 |
| tgtgtgtgtt | ttggattaaag | ttttttttta | gggatttatg | ggtagttttt | tttaagtaag | 2100 |
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| tttggggaaa | gagaggtttt | ttgtagtatt | tttgggtttt | tttttagtag | agtattttgga | 3180 |
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| tgagagtaga | ggttgggttg | tttgttttatt | tttgtatatt | tagtgttttag | tatgggtgttt | 3720 |
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| aataataagt | ttatttttatt | agtattttgt | tttttatgta | aagttttgtt | tatatgaata | 4140 |

| | | | | | | |
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| tttaaagaaa | ttttagggtg | ggtgagtggg | ggtatttagg | ggaggggggtg | tagttagaat | 4620 |
| tttttttttg | taagtgtgtg | aggggtattt | ttaatgtaaa | attagattta | gaaagtagtg | 4680 |
| attagttttt | tttggattat | tttttatttg | tttttttttt | gtttttttta | tttttttagat | 4740 |
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| gaagttttgt | ttgatttggg | ttgttattat | aataagtttg | tattaaattt | gaggtatttt | 5700 |
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| tagtttaaaa | ataaaataaa | taataaaaaa | taataaaatt | aaaaaatga | agaattgaat | 5820 |
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<210> 78

<211> 1738

<212> DNA

<213> Artificial Sequence

<220>

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<400> 78

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| gttaataatg | tgtaatgtgt | ttaatatttg | tttagatatt | tagtaatatt | tgtttattgt | 120 |
| tattattatt | tttggtatta | ttataaatgt | aaatattatt | gaaggttttt | tttgtaagta | 180 |
| aaattttttt | tttttttttt | atgggggtga | gtgttttttg | ttagttttta | aaatttttat | 240 |
| gggagaaatt | agattttttt | tgaagaaaaa | gtttttttta | ttttttttta | ttttttataa | 300 |
| gttttagatg | tttttggtag | ttttagggtg | ggttgttttag | tttttgattg | gtagttatag | 360 |
| ttttgggtgt | ttttttgttt | ttttttattt | tttttatggg | tttatttttt | gggaggtttg | 420 |
| tgatgatggg | tttaggtgag | atgtatatgt | tatgggtata | gataggtagt | ttgttgtagg | 480 |
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| tgtgttggtta | tattgatttg | tatggtttga | tagggttgtg | taggaatttt | aggggtgtaa | 600 |
| tgggtgtgta | tatgggtatg | aggaagaagt | gtagtatggg | gtttagtttt | atgtttatta | 660 |
| gtttttgtga | tgttttgatg | gttaggatgg | tgtttttttg | tgtgttgtgg | tgtagggtgg | 720 |
| tgggtatttg | tgtgatgttt | tagggtagtt | tgttggtatat | agggatgtgt | attgttttgt | 780 |
| agggtgtgtt | gtgtatgttt | agtgttaggt | gtagttatag | gtatagtgtt | attaggatgg | 840 |
| agaggaatat | ggatattgtt | ttttgtgttg | tgattttggg | agatagaaag | tgtttttttt | 900 |
| tttttgttat | ttttattttt | tgttgttttt | ttgttgagga | agaaattttt | tgggggtgtg | 960 |
| gagagttttt | tttttttaaa | tttagttggg | agtaaagtgg | ggttgtgggg | tttgggtgtg | 1020 |
| gagttttgtt | gttttggtata | taggggtatga | gtagtgttag | tttttagttt | ttgggggtgtg | 1080 |
| aatttgtttg | ggtagtttta | gttttggatt | ttgtagtgtg | gagtgtagtt | agttatggtt | 1140 |
| attgtgggat | tttattttat | ttgatatttt | ttttgatgtg | ggtttggaa | gttttttttg | 1200 |
| tagttgtagt | tgtgggtgtg | gttttttttt | ggttgtttta | tttttaggtt | tgttgggtga | 1260 |
| gaagtgggtga | tattattttt | tttgggttgt | agtttagggg | tggaggtttg | tttttttttt | 1320 |

85/93

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| aaagtttttt | tttttttagtt | tggttagttt | ttttttttttg | gattaagaaa | aagaattttt | 1380 |
| ggtagttgtt | tttgatattg | gatataagag | ggtgtgggag | agaattttta | gagagagaaa | 1440 |
| gataattttt | ggttgaaaat | tgaattttgt | tttttttgtt | tttagagttt | tttaagtata | 1500 |
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| agtgtagtga | atgttagaat | aggaggggta | tgttgtataa | attattttta | ttttgttttt | 1680 |
| agttgtgtgg | agtgtggttt | gttgttgttg | ttgttagtag | atagtttggg | ttgaaatt | 1738 |

<210> 79

<211> 1738

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 79

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| gggtggagtg | ggagtgattt | atataatgtg | atttttttgt | tttgatattt | attgtatttt | 120 |
| tgtttggttt | gtaggatatt | gttttaattg | tttttagtgt | tttttatgtt | ttttattgga | 180 |
| gaaagtaaat | atatttttaga | attagagggt | agtagaagtt | tttatttttt | tttaatttta | 240 |
| tatttggaat | aatttttaagg | tagagggagt | aaagtttagt | tttttagtta | agagtgtttt | 300 |
| tttttttttt | gaaatttttt | tttgatattt | tttgatattt | gtgttgaaaa | taattgttag | 360 |
| aggttttttt | ttttgggttt | aagaaaaaag | attgggttaga | ttaaaaagga | gggatttttag | 420 |
| ggggaaagta | ggttttttagt | tttgggttgt | ggttttagagg | gggtgatgtt | attgtttttg | 480 |
| tattgatggg | tttgggggtg | gggtggttga | gggggagttt | gtgttggtgt | tgtagtgtgt | 540 |
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| ttgtggttgg | ttgtgttttg | agttgtggag | tttgggattg | gagttgtttg | ggtgggtttg | 660 |
| tgttttgaag | gttgagagtt | ggtgttgttt | gtgttttgtg | tgtagatagg | tgtagttttg | 720 |
| tggttggtat | ttgtgggttt | gttttgttgt | tgattggagt | ttgggggaag | aaattttttt | 780 |
| gtgttttaga | ggattttttt | tttgggtgaag | ggatagtga | agatgagggt | ggtaggaaga | 840 |
| gaagggtgtt | ttttgtttgt | tggggttgtta | gtgtgagagg | gtagtgttat | gttttttttt | 900 |
| attttagtgg | tgttgtgttt | gtggttgtat | ttgggtgttg | gtgtgtgtgg | tgtgttttgt | 960 |
| gaggtggtgt | gtattttttat | gtgttggtat | atgtttttgga | atattatgtg | gatgtttaat | 1020 |
| tatttgattt | atagtattga | ggagaatgtt | attttgggtta | ttgagttagta | tgaggagttg | 1080 |
| gtggatgtga | attgtagtgt | tgtgttgtgt | tttttttttt | gtgttatgta | tgtgtttatt | 1140 |
| tgtatttttg | agttttttgta | tgattttatt | aagtttgtgta | agttggtgtg | ttaatgtgtg | 1200 |
| tgtagtgatt | gtgagttttt | tatgaagatg | tataattata | gttggtttga | aagtttgggt | 1260 |
| tgtgatgagt | tgtttggtta | tgatttgtgt | gtgtgtatatt | tgtttgaaag | tattgttatg | 1320 |
| gatttttttg | agggtgaggt | tgttaggaag | atggagggag | gtgaggaggt | gtttgggggt | 1380 |
| gtggttgtta | attgagaatt | gggtggttat | attttaagggt | gttaggggtg | tttgagggtt | 1440 |
| gtaggaggtg | ggaaagaatg | ggggaaatat | tttttttaga | aaaagtttgg | ttttttttat | 1500 |
| aggaatttta | ggagtttagt | gagagtattg | tattttataa | agaaaaaaaa | aaagattttg | 1560 |
| tttataaagg | gagtttttga | tgatgtttgt | atttatagta | ataatagaaa | tgataatagt | 1620 |
| agtaaatagg | tgttgttagg | tgtttgagta | agtgttaaat | atattatatg | ttattgattt | 1680 |
| atttaatgtt | taaaataatt | ttattaagta | ggtgttaata | tttgttttat | ttagtgtt | 1738 |

<210> 80

<211> 1755

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 80

| | | | | | | |
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| gagggtggag | attttagggg | tttaggtata | gaaaatgggg | atgtagatta | tagtttagaa | 120 |
| tatttttagt | tttttagttt | tttttatatt | ttttttttta | tttttttttt | ttttttaagg | 180 |
| ttttaatatg | gagtggggat | gatgtttgtt | ttgggtgttt | gggatttagg | tgaaagggtat | 240 |
| tgtttaaatga | tttttaggtat | ttttgggttg | agaggggtta | taagggtattt | attaggatgt | 300 |

| | | | | | | |
|------------|-------------|-------------|-------------|-------------|-------------|------|
| tttaggattg | gggggatggt | at tgggggat | tttttagtagt | ttggttggat | gggtattgag | 360 |
| aggggtgtta | ggggttttta | gggaatgaga | gttagagggga | aggtttggag | ttgttgggag | 420 |
| gtattatgtt | gttatttttt | ggggaggtgg | gaaggtggga | aggttgtggg | ggataatttt | 480 |
| ggggatgttg | ggttgagtta | ggatagtggtg | tgtgtgtgtg | tgtgggtgga | gggggggagt | 540 |
| tgtatttttt | gggggggtttg | tagagttgtg | ttaggggagt | tgtagggttg | ttggagtgtg | 600 |
| tggggatggt | ggtggtggtg | ttatttggag | gtgtggtggt | gggtagggtg | ttgaattgta | 660 |
| tggatgagta | gaggttgttg | tttaggggga | atttgtggta | gtgtagtatt | ttaggttagg | 720 |
| ggaagtgtga | ggttttttatg | agtgggtgtg | agttgggtgtg | tatggttttg | tatagtgaat | 780 |
| ggtatgggta | gatgggttgg | ttgagataga | tgggtgtaaa | gagtgaat | aggaagattt | 840 |
| gtgtatttga | gtggtagtgt | ttggtagta | gtggtagtta | gttgtttgtt | tgttgtttta | 900 |
| ttttggttag | gtttttgtgt | tttagtaggt | tgggtagttg | tatgtgtttg | tagtttattg | 960 |
| tgtggtagag | tggtaggttg | gtaggatgt | taaggatttg | tgggtgtttg | gagtaggagt | 1020 |
| ggttgtgtag | tggtttgggt | tgttagttat | agtagttgta | ttttttgtag | tgtgttgggtg | 1080 |
| tttagtgtag | tgttttttagt | agtagtggtta | gtgtggttgt | ttgtatgttt | ttttttgttg | 1140 |
| ttgttgtttg | tatggttgtg | tttttttttag | gtgtgtgttg | tgtagttttt | tgatgttttg | 1200 |
| tgtttggtgg | tttaggtgtt | ttggtgtgtg | tttttgggtt | tgattttatt | tagttgttgt | 1260 |
| tgttgttgtt | gtggagggtt | tttaggtggg | tggtagtttg | tgttgtgggt | gttttgattg | 1320 |
| attttgggtg | tttttatttt | gggggttttag | tttgggtttt | gttgtgtgtt | ttagttaatt | 1380 |
| tttggttgtt | tggtttttagt | tttaagggtg | ggaggtagtg | ggggtggttt | ttagtttttt | 1440 |
| ttgtattttg | tttgagtgtt | ttgttttagt | ttaggttttg | tgtttttttt | ttgggttgggt | 1500 |
| ttttttgttg | tagtttttgg | tttgttttagt | gttttttttt | agggtttttt | gttttttttg | 1560 |
| gtattttttt | tgattttttg | ttttttttatt | tttttttttt | attttttttt | gttatagttt | 1620 |
| tttttgtttt | ttttttttatt | taattttttt | gtttattttt | ttgttttgggt | tttttttttt | 1680 |
| ttgttttgtt | tttttttttt | tgatattttt | gttttttttt | tttttgggtg | gaggtttgtg | 1740 |
| ttattttata | ttttg | | | | | 1755 |

<210> 81

<211> 1755

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 81

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| gagaaaaatag | agtagagggga | ga aaagttaa | ggtagagaga | taagtaagt | aagtgaagtga | 120 |
| gaaaagggaat | aggagaggtt | gt ggtggaga | gagataagga | ggaaggatgg | agaagggtgag | 180 |
| ggttgaggaa | aatgttttag | ga ggtagggga | gttttgggga | gaaatgttgg | gtgagggttag | 240 |
| ggttgtggta | ggggagttga | gt tgggagag | gggtgtaaga | tttgggtgtg | ggtgggatgt | 300 |
| ttgggtaggg | tgtgggaggg | gt tgagggtt | gtttttattg | tttttttgtt | ttggagtgtg | 360 |
| ggttagggtg | ttggagattg | gt tgggggtg | atgggtgagg | ttgggttggga | gttttgagggt | 420 |
| gggaggtgtt | aggattagtt | gg ggtgtttg | tagtgtaggt | tgttatttat | ttgggtgatt | 480 |
| tttgtgggtg | tgggtgtggt | gg tgggttag | agttagggtt | gggggtgtat | gttgggaatat | 540 |
| ttgggttgtt | gggtattgag | tgttgggggg | ttgtgtggtg | tgtatttggga | gaggggtgtg | 600 |
| ttatgtgggt | ggtggtggtg | gg ggggggtg | tgtggatggt | tgtgttgggt | ttgttgttgg | 660 |
| gggtgttgtg | ttgggtgttg | gt gtgttgtg | aggagtatga | ttattatggt | tggtaggttg | 720 |
| agttgttgtg | tgggtgtttt | ta tttttaagt | tgttgtagtg | ttttgatatt | tttgttgatt | 780 |
| tgttgttttg | ttatattggt | ggttataagt | gtatgtggtt | gtttaatttg | ttggagtatt | 840 |
| agagtttgggt | tgaagtgaag | ta gtaggtga | gtagttgggt | gttgttgttg | gttaagtgtt | 900 |
| gttattttgga | tatgtaggtt | tt ttttgtgt | tgttttttgt | gtttgtttgt | tttgaattgt | 960 |
| ttattttatt | gtgttgtttg | tt gtgtgagg | ttgtgtgtgt | tgggtgtgtg | ttgtttatgg | 1020 |
| agggtttatg | tttttttttg | tttgagatgt | tgtattgtta | taagtttttt | ttggataatg | 1080 |
| atttttgtat | tgttgtgtag | tt tgggtatt | tgtttgttat | tgtgttttta | ggtagtgttg | 1140 |
| ttgttgttgt | ttttgtgtgt | tt tgatggtt | ttgtagtttt | tttagtatag | ttttgtgaat | 1200 |
| tttttaagag | gtgtagtttt | tt tttttttg | ttatatatat | atatatatgt | tgttttagtt | 1260 |
| tagtttagtg | tttttggaa | ta tttttttg | agtttttttg | tttttttatt | tttttaggga | 1320 |
| gtggtagtat | agtgtttttt | gg tgggttta | gatttttttt | ttgggttttg | ttttttggaa | 1380 |
| attttttgga | tttttttttag | ta tttattta | attaagtgtg | tgagaatttt | ttaatgttgt | 1440 |
| tttttttaatt | ttgggatgtt | tt gataaatg | ttttatgatt | tttttttagtt | taagaatgtt | 1500 |
| tgggttgtgt | aaataatgtt | tt tttatttg | attttgaggt | attaaagtaa | gtattatttt | 1560 |
| tatttttgtgt | tgggattttt | gg aagagagg | agagggtgag | gaagggtatg | ggagaaagat | 1620 |

| | | | | | | |
|------------|-------------|------------|-------------|------------|------------|------|
| tggggattaa | gaatgtttttg | gattatgatt | tgtgttttttg | ttttttgtat | ttggaatttt | 1680 |
| aagattttta | tttttttttt | tagttttttt | ggttgggagt | tatttgggta | aggtttagtg | 1740 |
| tggaaggaag | agtag | | | | | 1755 |

<210> 82

<211> 7721

<212> DNA

<213> Artificial Sequence

<220>

<223> chemically treated genomic DNA (Homo sapiens)

<400> 82

| | | | | | | |
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| taaaaggatt | ttgttttaaat | ttaggggaaa | tgaagggtgtg | tgggttttatt | ttgtagttgt | 120 |
| agtttttagt | ttttgtagtt | tagaagattt | tgtatgagta | tggatgttat | gagggtattt | 180 |
| agttagtggt | aagggtgttg | ttttatatgt | ttttatatgt | atttgtaaaa | ttgttttgaa | 240 |
| agggtatttt | tagattttatt | tgttttaaat | gtagtataaat | ttatttgata | ttgtttataa | 300 |
| tgtatgtatg | ggttatttta | tatgtaatat | ttattgtatt | aattaattta | gttgatattg | 360 |
| agatggtgaa | tgggtgtggg | gagtagggag | gaatatgttg | tgtatgaaaa | attttgggtg | 420 |
| taaaagttaa | tgtagaattt | attttttgag | gaattgaaaa | agatatttat | gatttttaag | 480 |
| tggagagagg | atagaaagtt | aagtgggtgg | ggttgtgatt | agtgattggg | atttttagttt | 540 |
| gatttttagta | tttagtgga | taggattata | atttaaagaa | atgagttttt | tttggagtaa | 600 |
| agagtgggtt | tgatttttaa | gtagaaaaaa | taaattgttt | gggggtggaa | gatggtgagg | 660 |
| ggtggggggg | ggggaggagg | gtgggttgtg | gtgttggttt | tgggggttgt | ggtatggttt | 720 |
| tttttgttgt | gttgtttagg | gtttggattt | tgtttgggtg | tgtgtttatt | gtgagggtgt | 780 |
| tagatttgtt | gtgtgttgtt | tgtgtttttt | tagttgtggt | tttttttttt | gttgtttttt | 840 |
| tttgtttttt | tagttttttt | ttttatgtgt | ggatgatgtt | aaaattttgt | gaaaaagttg | 900 |
| tgtggtgtgt | ttttgagtg | aggtgtgatt | ttgttgttta | gtgggttttt | tttgggggtg | 960 |
| tttggagggg | gagaagggtg | gaggtgggtg | gttttttttt | tttttgggag | gtaggatttt | 1020 |
| ttgatgttga | ttgttggaag | ttttttgttt | taaagtttat | tggaaaattt | atttttgtaa | 1080 |
| agtaaatgta | tttttagagt | tatttttggg | tgtgtgaggt | gtgttttaag | ttgaattaga | 1140 |
| taggaagagg | gggaagtttg | ggtttttttaa | tttttttttt | ttttgaaggg | aggggagtga | 1200 |
| gatgttaggt | gggtgataga | tggtaggtgt | ttgttttttt | aatttatgtt | tgttgtattt | 1260 |
| gttgttttag | taatttagtt | ttgttttaagt | tgaattttgt | tgaaggaggt | gtggatgtat | 1320 |
| agggttgggt | gattttgttt | tttttttagaa | tgtagtgggt | tagtgttttg | gtgggtgttg | 1380 |
| tttgatattg | aggggttttg | aagttagtga | atatttgtaa | ttgtattgtt | tgtttttatt | 1440 |
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| ttttattttg | tttgtatttt | tttttttttt | ttgatgtgtt | ttttatgtgt | ttttttggat | 1560 |
| ttatgtgttt | ttttgtattt | tgttagtttg | gtttttgggt | ttgattgatt | gtttattttt | 1620 |
| ttatggagaa | atataaatat | agttttattt | tttgggggag | ttgaggggaa | ggtagtgggt | 1680 |
| tttatttttg | agtttgaatt | tagttattat | ttgtttttta | tttgggttag | gtgtttttgt | 1740 |
| gtggagaagg | tgggatttga | atttgtgttg | ttttttgggt | ttgagttgat | tgtggaatta | 1800 |
| tttggttggg | aggtattttt | taggtaagtt | tgggagtagt | tgtgttttagt | gttgtagggt | 1860 |
| tttgtagaaa | agtggttata | aataattaat | attttgttgt | attttttatt | tttaggtttt | 1920 |
| gtatattttt | taattgaaat | tttaaaatgt | tagtgtagag | ggtggggagt | tgggtggaaa | 1980 |
| aagaataaaa | gtttaataaa | attggtgttt | gttaaagttt | attattagtt | ttatatggga | 2040 |
| tatatatata | tgtatttttt | tttttgtgaa | gggtgaaaag | gagataagga | agaattaata | 2100 |
| atttattttt | ttttgttgtt | ttttattttt | gtgttatggg | gattagtgtg | gattttaaag | 2160 |
| ttagagtata | ggtttttgtg | tttttttttt | aaattgaagt | ttatatgaa | agaaagtgtg | 2220 |
| tatttttgtt | tagaaggtaa | tatgtgtttt | tttgtgtgtt | aggtggagtg | tatttttaata | 2280 |
| agataattag | gttttaatat | atgggtggag | tgggtgattaa | aagggaataa | ttagttttta | 2340 |
| gtttaagttt | tttagagata | tttttgttaa | tttttgtatt | tttttatgtt | ttattttatg | 2400 |
| tgtgagagtt | tgtaaaaatta | ttggggattg | gatttgatgg | tgagttttat | gtttgggaat | 2460 |
| agtttagta | tggaaagggg | agtggatagg | ggaattttta | gaggtgagtt | tgttatgtgg | 2520 |
| gaagtgtttg | aatttgtggg | tttttatgaa | tgtagagggg | gttgggaagg | gggggtattt | 2580 |
| ggttgtgatt | ttttttgttt | tttttatttt | ttgttttttt | ttttgttgga | atttttttgt | 2640 |
| aaagtaagat | ggagttaggg | gagggggaga | gggaaggggt | gagaggggtt | ttgggtttatt | 2700 |
| tttgagatgt | gaggatttgt | tatttaggta | tttttttttg | ggtgggttgg | gttttgggat | 2760 |
| gattatttgt | tttttttttt | tttttgttgt | ttttattttg | ggagatttag | agtttttgat | 2820 |
| gttttttttt | ggagaagggg | gggtgtgtgg | agttgggggt | gaagagattt | tgtttgtaga | 2880 |
| gttatattaa | gtgatgttta | gaggttggga | gttttgggtg | tttttgtttt | ttgtttgttg | 2940 |

| | | | | | | |
|-------------|-------------|-------------|-------------|-------------|-------------|------|
| ggtagatttt | atatttttaa | aatatttttt | gttttttttt | ttttttttgt | ttttttttgt | 3000 |
| tgtaattttt | tttgatttgt | ttaaaggtgg | tttaggtgaa | attggagtaa | tttttttatg | 3060 |
| ggggttttta | aatgtaagt | aatgttttta | tttgggggtga | tttaaaagt | taagttggga | 3120 |
| agtttaaatgt | gattaaaatt | aataggtgat | tgtttgggggt | tgatttgtgtg | tgggtgtata | 3180 |
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| gggtttttta | gtgagttttt | ttttttttt | aaagttaatg | gtttttatag | taattagata | 3300 |
| ttttttttgt | ttgttttttt | ttttttttt | ttttatatat | aggagatggg | atatttat | 3360 |
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| tgttttgttt | ttttttgttt | ttttttgggt | tttttttgat | gtagtgggga | atgtgtttta | 3480 |
| ttaaaaaaaa | aaaaaaaaaa | aaaaaa aaaa | agtaatttgt | ttggtaataa | ttagtgtgta | 3540 |
| gtagtaggag | tttttagagt | attgggttat | ttaaataagag | gaggggagat | ggtgttttaa | 3600 |
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| aaggggtgtg | tgggggtggg | gggtga tggg | aggaaggagg | tgaagaaatg | ttatttagatt | 4020 |
| gtattttttg | taaagatagt | tttgatttaa | gtatgtgtta | gagtatgtgt | taggggtgat | 4080 |
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| tgaaattgga | gggggttggg | aggatgtggg | tgaaggattg | agtgtggagg | ttttatgttt | 4200 |
| ttggggaaag | gaaggggtgg | tgggtgtttg | gtagggggag | tgagggggag | ttggatttaa | 4260 |
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| ggttttagat | gttgtattgt | gttgttttat | ggtgtttgaa | gagttttttag | aaatatgatg | 4500 |
| gtttttgttt | gaggattata | ttttat tttt | tttagagaagt | attttttttt | ttttttaata | 4560 |
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| ggttgttttg | tttttttaat | tgggggtttt | gaaatagttt | tgaagttatt | aggaatatag | 4680 |
| attttaggga | tatgattttt | atttttgggt | atgtgaggtt | gttatttttt | aaaattattt | 4740 |
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| agataattta | ttttatat | ttggat tttt | aatataaggg | taggaggatt | aggatttgtt | 4860 |
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| agattgaaag | gaggagggga | ggattggggg | gggaggaaag | gggaggagga | attagagtgg | 5160 |
| ggagtgtggg | gagaggagg | agagtt aatt | gttttagttag | tttgtgttat | tgttttagag | 5220 |
| tggagaagag | tgagttaggg | agagttagat | tagtttttaag | gggaggattg | gtgtgagtga | 5280 |
| ggtagttttg | aggttttgtt | tgtttattat | ttaatttttg | tttttttttt | gttttatttt | 5340 |
| ttttttttgt | ttttattttt | tttttgaaaa | ttttttattt | agttaaagga | aggaggtttag | 5400 |
| gggaatggtt | tttttttttt | ttttaaaaaa | taaaaataga | aaaatttttt | tttaggttgg | 5460 |
| ggaaagtagg | agggagaggg | gttgttgggt | tggttatgga | gttgttgtgt | tatgaggtagg | 5520 |
| attttggtttg | taggggttgtg | tgggat tgtg | atttgttttg | agatgattgt | gtttttaga | 5580 |
| atttgtttat | tattgaggag | tgttat tttt | tgtagtgttt | ttattttaag | tgtgtgtaga | 5640 |
| aggatattta | attttatatg | tgtagaatgg | tggttatttt | gatgttggag | gtaggttggg | 5700 |
| gggtggtgtt | tgttaggagt | taggat tttt | ttggatgttt | gggttttttg | ttggagtttt | 5760 |
| aaatttggga | gagggt aatt | tttgtgttgg | ttttttgggt | tttgtgtggg | agtttatgtt | 5820 |
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| ttgggatttt | agttaagaaa | tgggttaggt | aatttatggg | tagagggaag | attttttttt | 240 |
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| aaaattaatt | tttttttgtg | ggagggggag | gggattagaa | tgtgtgataa | gaataaagaa | 420 |
| taaagatgag | gaaattggag | tgaattagaa | tagtttatta | gtgttttggg | atttttaggg | 480 |
| attttataaa | agggggtgaa | ttatagtttt | aaaatgggga | gttgagaaag | tgtgtagtag | 540 |
| ttgtggtagt | tttgtgatgt | tttttttggg | tatttttttg | tgtattttta | tttattttatt | 600 |
| tttttttggg | ttttgttatt | tttttaaaaa | attaataaaa | atatttttga | ggttttgggg | 660 |
| gtttattttt | tggttttatt | tggattttta | gatttttttt | tattattttt | gataattgga | 720 |
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| aaagtttttt | ggtgtgaaaa | ttttaaagaa | gagttaggtt | ttttgaaata | gaggttttgg | 960 |
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| gggtgagtgt | tgtggtggga | gtgttttggg | gtggtttata | aggatagaaa | ttaggggaatg | 1080 |
| tggtgatgag | tgaggggaaa | gatgggagta | gagagttttg | gaaagaggta | tgggggggtt | 1140 |
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91/93

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